ATLAS

To Accompany a Report on the

Fishes of Illinois

S. A. Forbes R. E. Richardson

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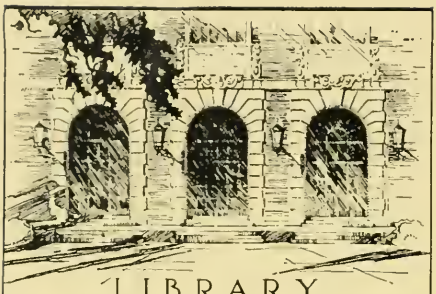

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NATURAL HISTORY SURVEY OF ILLINOIS
STATE LABORATORY OF NATURAL HISTORY
S. A. FORBES, DIRECTOR

Maps

Showing Distribution of Illinois Fishes

to Accompany a Report on the

Fishes of Illinois

BY

STEPHEN ALFRED FORBES, PH.D., LL.D.
AND
ROBERT EARL RICHARDSON, A.M.

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DANVILLE, ILLINOIS

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List of Maps

The general map of the distribution of collections (Map IV.) shows, by the location of the red spots, all the localities from which collections of fishes have been made by us in the work of the Natural History Survey. The distribution maps for the various species indicate in the same way all the localities from which representatives of the species have been taken. *For an accurate idea of the significance of these species maps, each should be compared with Map IV.*

The following numbered list of the counties of the state corresponds to the figures on these maps.

1.	Jo Daviess	35.	Hancock	69.	Madison
2.	Stephenson	36.	McDonough	70.	Bond
3.	Winnebago	37.	Fulton	71.	Fayette
4.	Boone	38.	Mason	72.	Effingham
5.	McHenry	39.	Tazewell	73.	Jasper
6.	Lake	40.	McLean	74.	Crawford
7.	Cook	41.	Vermilion	75.	Lawrence
8.	Du Page	42.	Champaign	76.	Richland
9.	Kane	43.	Piatt	77.	Clay
10.	DeKalb	44.	Dewitt	78.	Marion
11.	Ogle	45.	Logan	79.	Clinton
12.	Lee	46.	Menard	80.	St. Clair
13.	Carroll	47.	Cass	81.	Monroe
14.	Whiteside	48.	Schuyler	82.	Randolph
15.	Rock Island	49.	Brown	83.	Washington
16.	Mercer	50.	Adams	84.	Perry
17.	Henry	51.	Pike	85.	Jefferson
18.	Bureau	52.	Scott	86.	Wayne
19.	Putnam	53.	Morgan	87.	Edwards
20.	La Salle	54.	Sangamon	88.	Wabash
21.	Kendall	55.	Christian	89.	White
22.	Grundy	56.	Macon	90.	Hamilton
23.	Will	57.	Moultrie	91.	Franklin
24.	Kankakee	58.	Douglas	92.	Jackson
25.	Iroquois	59.	Edgar	93.	Williamson
26.	Ford	60.	Clark	94.	Saline
27.	Livingston	61.	Coles	95.	Gallatin
28.	Marshall	62.	Cumberland	96.	Hardin
29.	Woodford	63.	Shelby	97.	Pope
30.	Stark	64.	Montgomery	98.	Johnson
31.	Peoria	65.	Macoupin	99.	Union
32.	Knox	66.	Greene	100.	Alexander
33.	Warren	67.	Calhoun	101.	Pulaski
34.	Henderson	68.	Jersey	102.	Massac

I. & II. The three sections of Illinois, northern, central, and southern, and the ten stream systems of the state: I., the Galena District, II., the Rock River System, III., the Illinois River System, IV., the Lake Michigan drainage, V., the Mississippi River drainage, VI., the Kaskaskia River System, VII., the Wabash System, VIII., the Big Muddy River System, IX., the Saline River System, and X., the Cairo District.

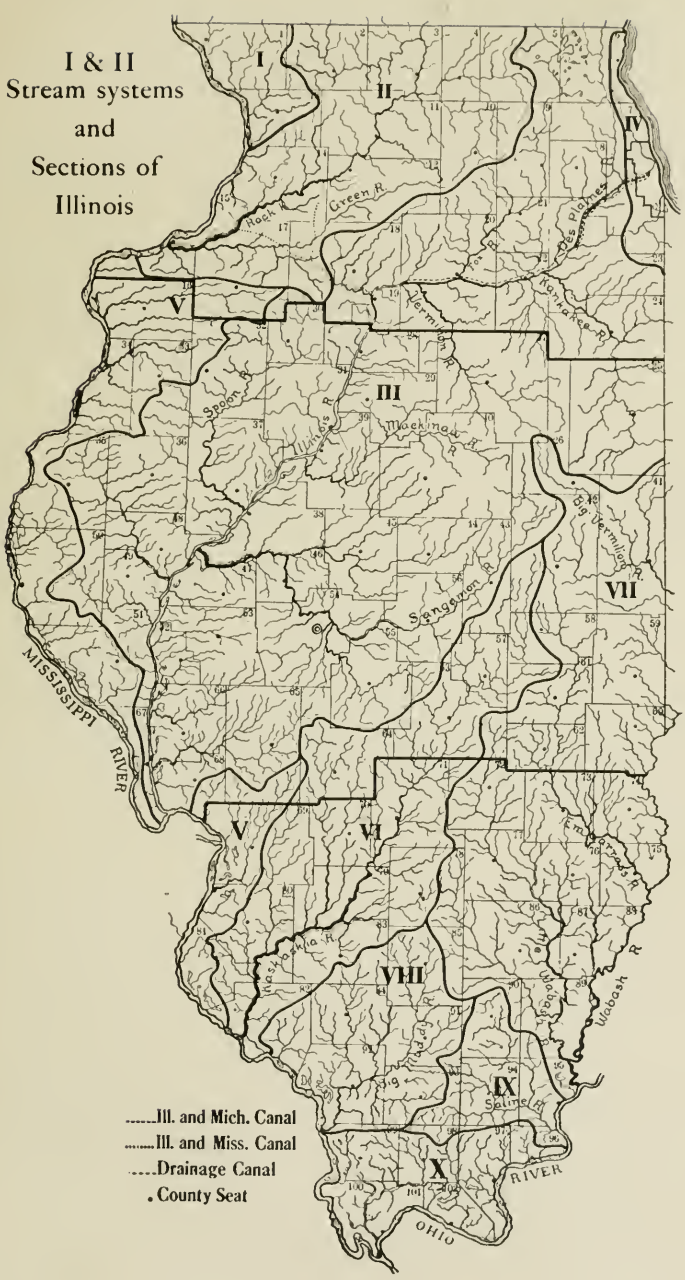
III. Glacial geology of Illinois.

IV. Localities from which collections were made.

V.—CII. Distribution of species.

CIII. Northern species (●) and southern species (▲) in Illinois.

V. Lepisosteus osseus
VI. L. platostomus
VII. Amia calva
VIII. Dorosoma cepedianum
IX. Ictiobus cyprinella
X. I. urus
XI. I. bubalus
XII. Carpiodes carpio
XIII. C. difformis
XIV. C. velifer
XV. C. thompsoni
XVI. Erimyzon sucetta oblongus
XVII. Minytrema melanops
XVIII. Catostomus commersonii
XIX. C. nigricans
XX. Moxostoma anisurum
XXI. M. aureolum
XXII. M. breviceps
XXIII. Campostoma anomalum
XXIV. Chrosomus erythrogaster
XXV. Hybognathus nuchalis
XXVI. H. nubila
XXVII. Pimephales promelas
XXVIII. P. notatus
XXIX. Semotilus atromaculatus
XXX. Opsopœodus emiliæ
XXXI. Abramis crysoleucas
XXXII. Cliola vigilax
XXXIII. Notropis cayuga
XXXIV. N. heterodon
XXXV. N. blennius
XXXVI. N. gilberti
XXXVII. N. illecebrosus
XXXVIII. N. hudsonius
XXXIX. N. lutrensis
XL. N. whipplii
XLI. N. cornutus
XLII. N. jejunus
XLIII. N. atherinoides
XLIV. N. rubrifrons
XLV. N. umbratilis atripes
XLVI. Ericymba buccata
XLVII. Phenacobius mirabilis
XLVIII. Hybopsis dissimilis
XLIX. H. amblops
L. H. storerianus
LI. H. kentuckiensis
LII. Ictalurus punctatus
LIII. Ameiurus natalis
LIV. A. nebulosus
LV. A. melas
LVI. Leptops olivaris
LVII. Noturus flavus
LVIII. Schilbeodes gyrinus
LIX. S. miurus
LX. Umbra limi
LXI. Esox vermiculatus
LXII. E. lucius
LXIII. Fundulus diaphanus menona
LXIV. F. dispar
LXV. F. notatus
LXVI. Gambusia affinis
LXVII. Percopsis guttatus
LXVIII. Labidesthes sicculus
LXIX. Aphredoderus sayanus
LXX. Pomoxis annularis
LXXI. P. sparoides
LXXII. Centrarchus macropterus
LXXIII. Ambloplites rupestris
LXXIV. Chænobryttus gulosus
LXXV. Lepomis miniatus
LXXVI. L. megalotis
LXXVII. L. humilis
LXXVIII. L. pallidus
LXXIX. Eupomotis gibbosus
LXXX. Micropterus dolomieu
LXXXI. M. salmoides
LXXXII. Stizostedion vitreum
LXXXIII. S. canadense griseum
LXXXIV. Perca flavescens
LXXXV. Percina caprodes
LXXXVI. Hadropterus phoxocephalus
LXXXVII. H. aspro
LXXXVIII. Cottogaster shumardi
LXXXIX. Diplesion blennioides
XC. Boleosoma nigrum
XCI. B. camurum
XCII. Ammocrypta pellucida
XCIII. Etheostoma zonale
XCIV. E. jessiæ
XCV. E. cœruleum
XCVI. E. squamiceps
XCVII. E. flabellare
XCVIII. Boleichthys fusiformis
XCIX. Microperca punctulata
C. Roccus chrysops
CI. Morone interrupta
CII. Aplodinotus grunniens


I & II
Stream systems
and
Sections of
Illinois
I
II
III
IV
V
V
VI
VII
VIII
IX
X
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Illinois R.
Spoon R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

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III

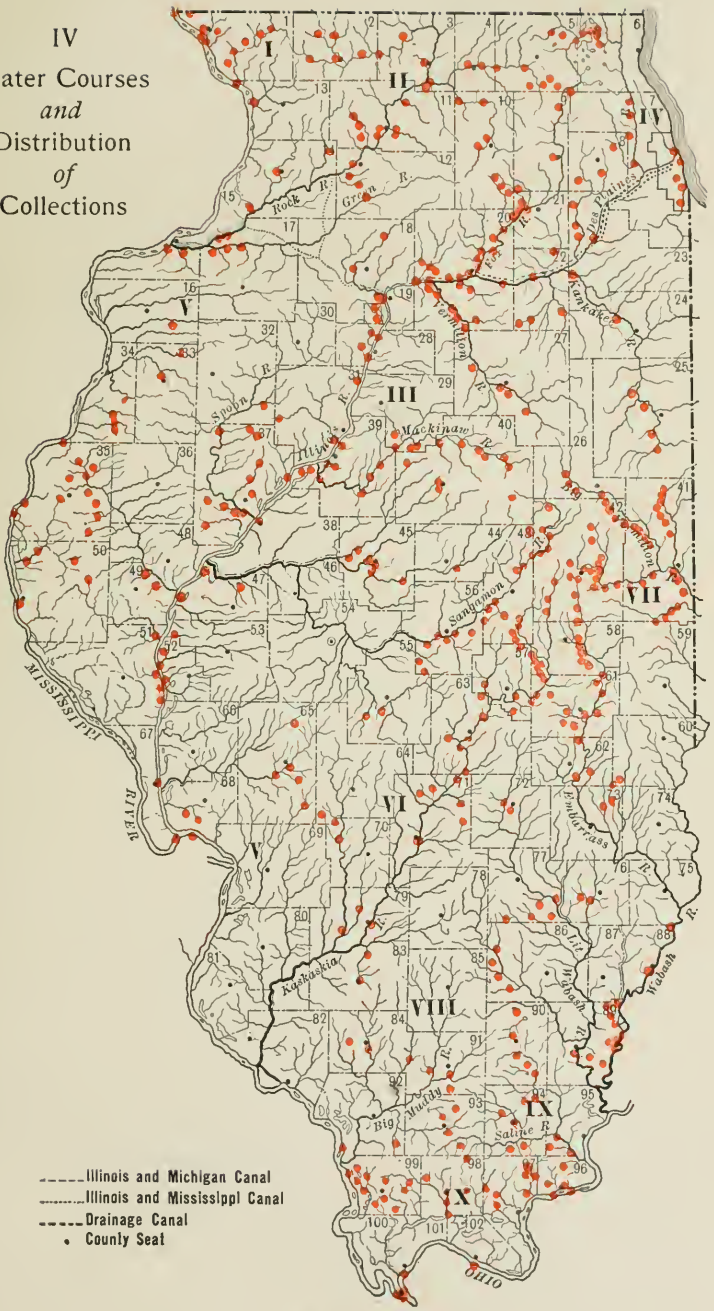
Map of the

Glacial Geology

of Illinois

IV

Water Courses
and
Distribution
of
Collections



V
Distribution
of
Lepisosteus
osseus
Rock R.
Green R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Wabash R.
Embarras R.
Little Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

VI

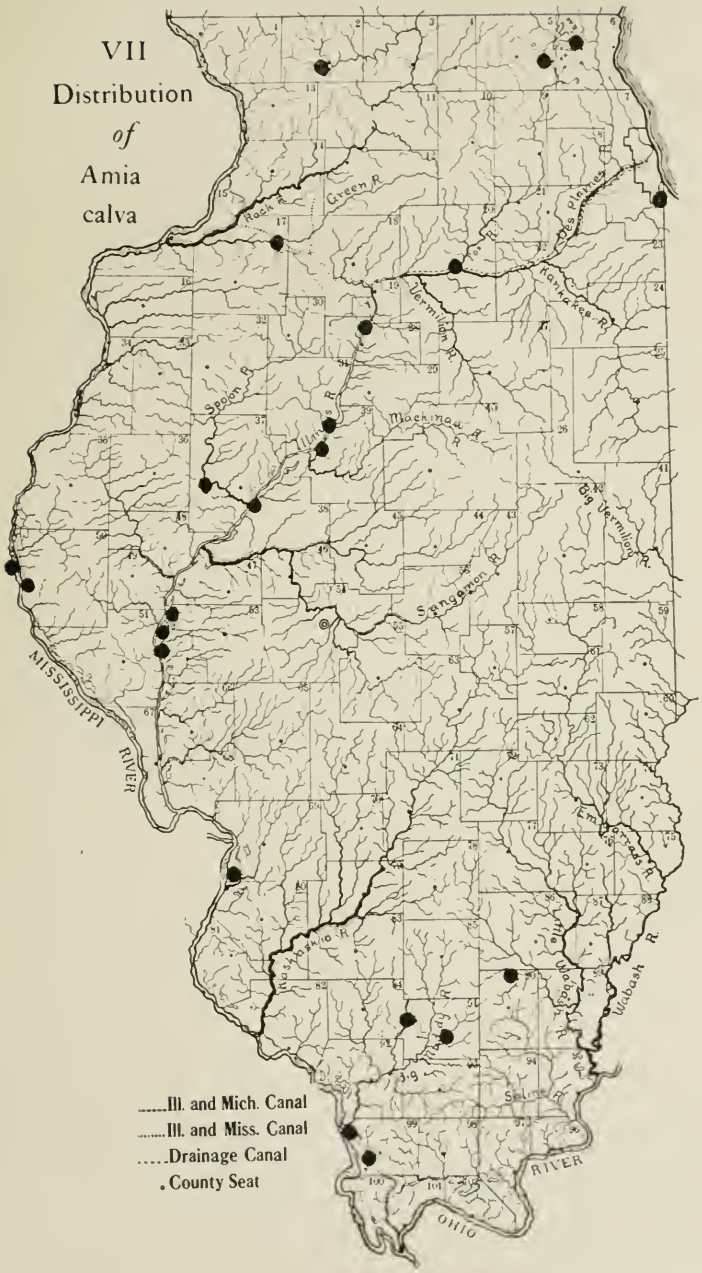
Distribution

of

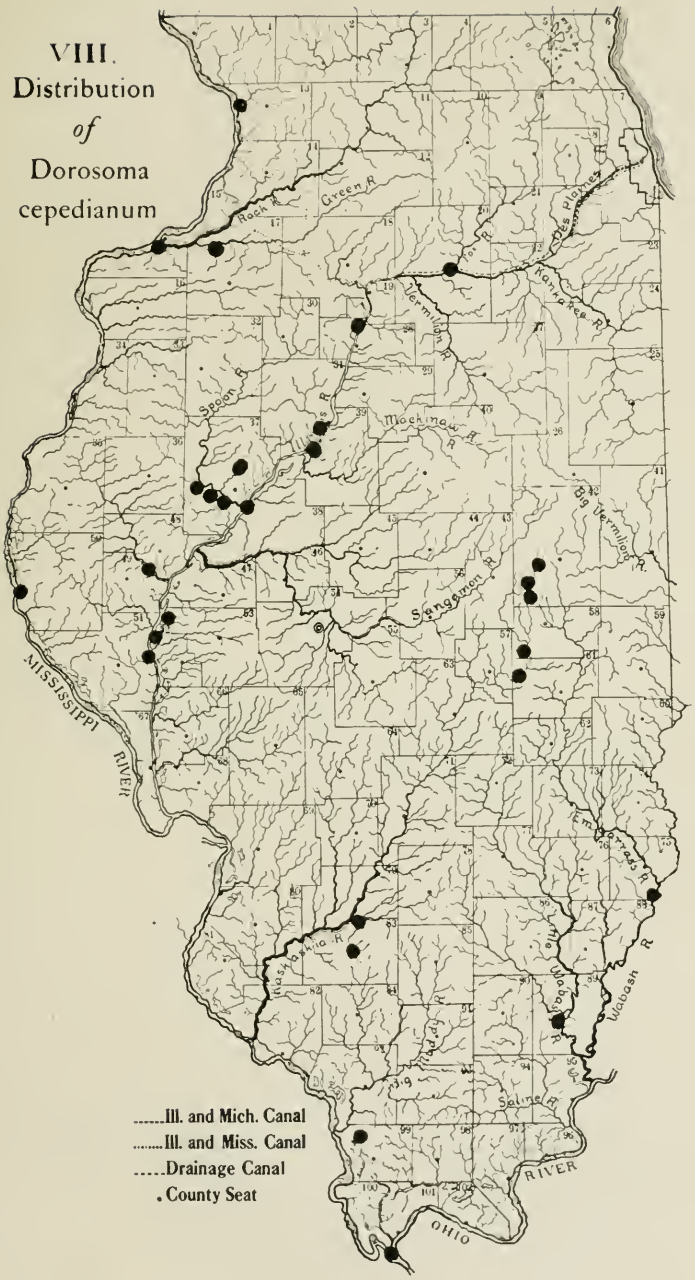
Lepisosteus

platostomus

VII
Distribution
of
Amia
calva



VIII.
Distribution
of
Dorosoma
cepedianum



IX

Distribution

of

Ictiobus

cyprinella

X

Distribution *of* Ictiobus urus

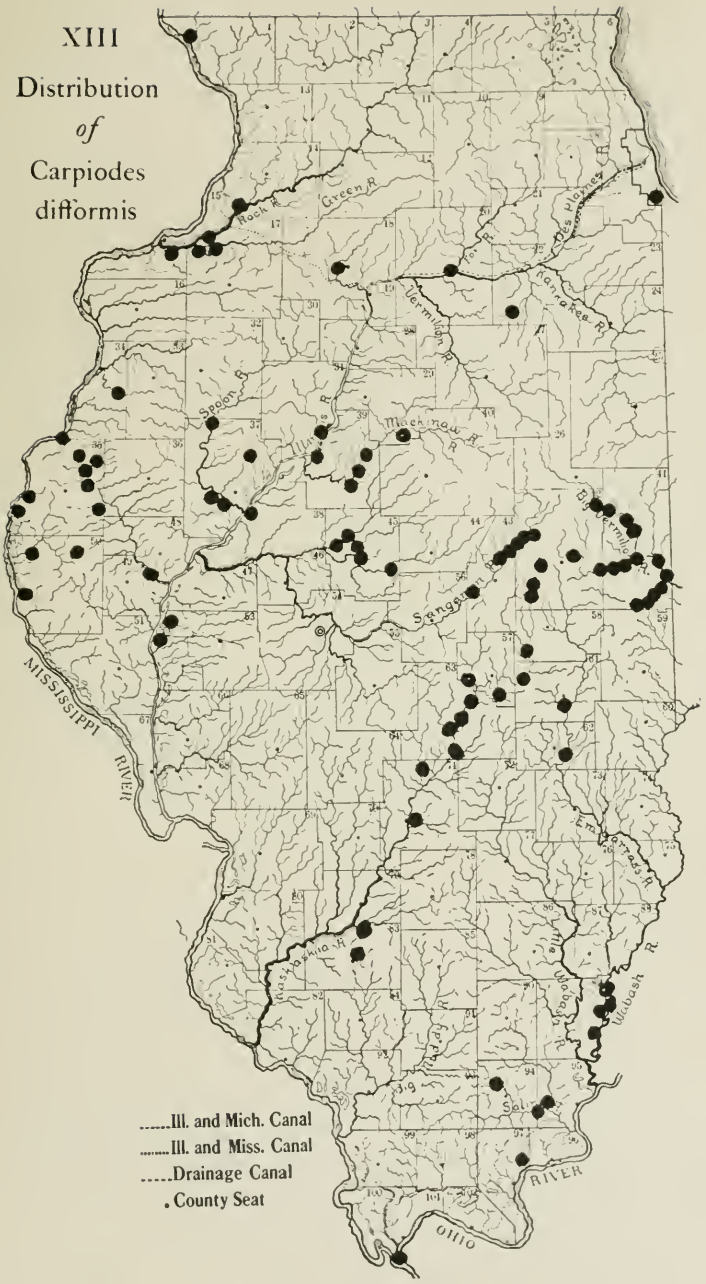
XI

Distribution
of
Ictiobus
bubalus

XII
Distribution
of
Carpiodes
carpio

XIII

Distribution
of
Carpiodes
difformis



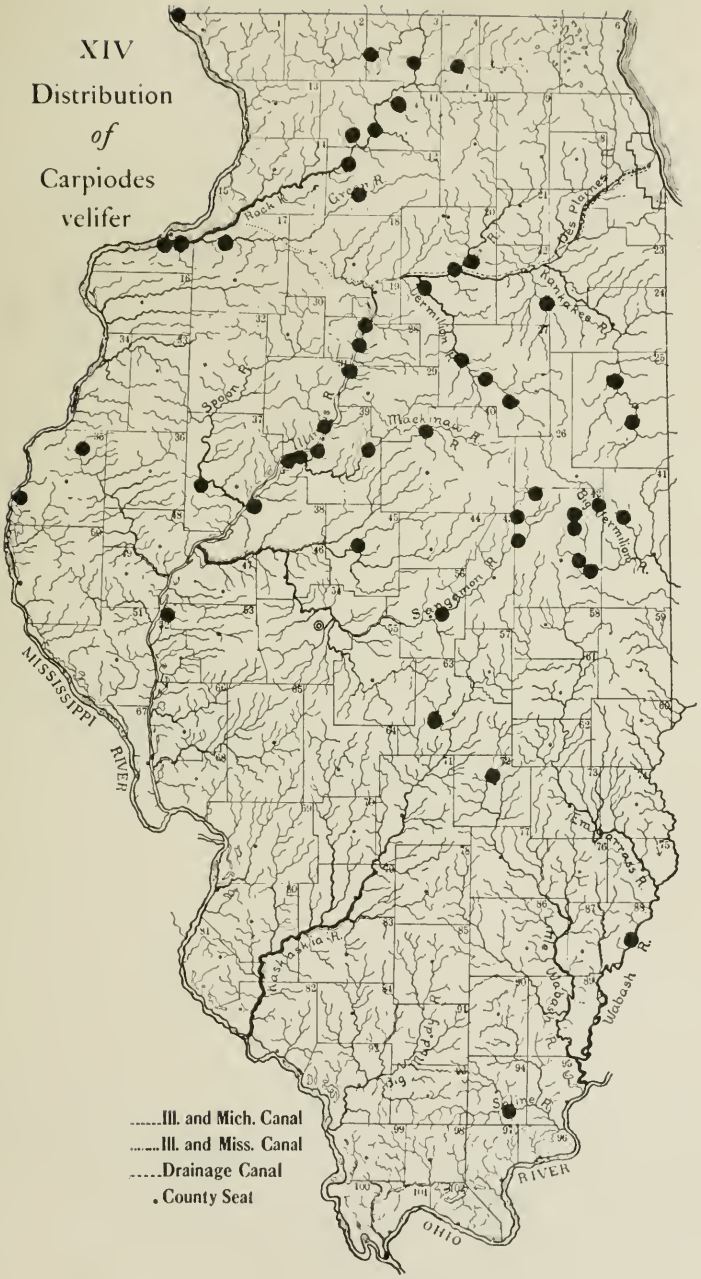
XIV

Distribution

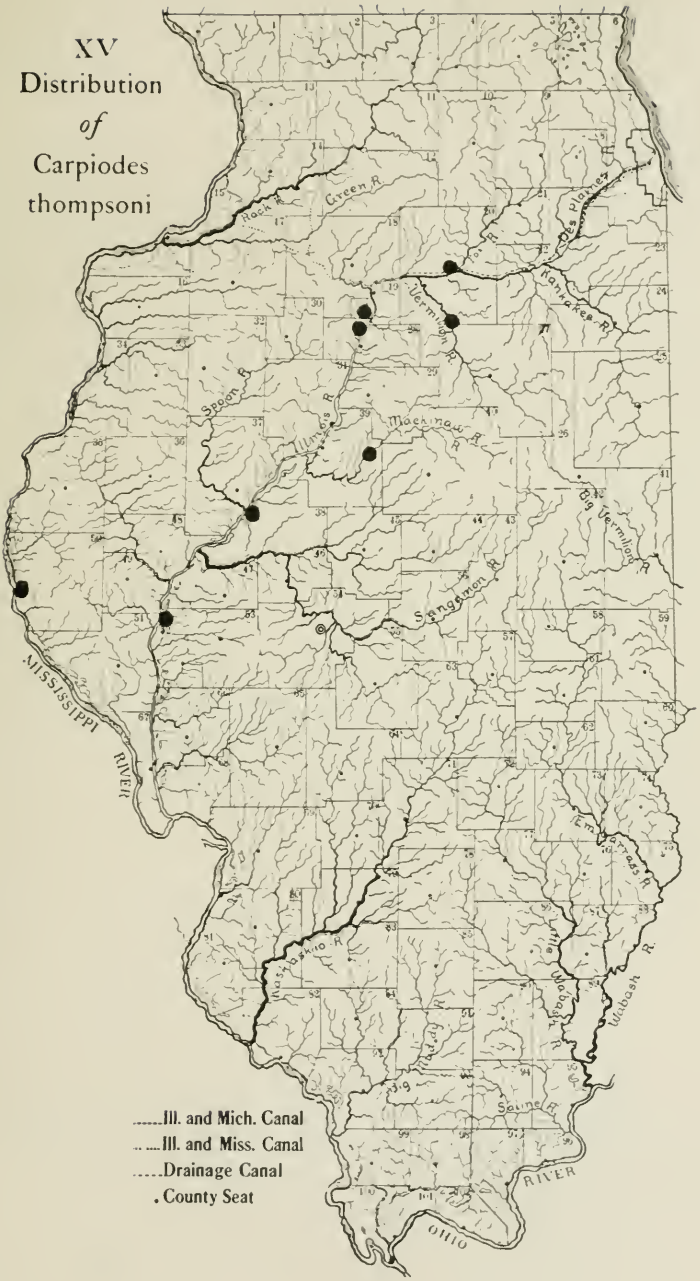
of

Carpiodes

velifer



XV
Distribution
of
Carpiodes
thompsoni



XVI

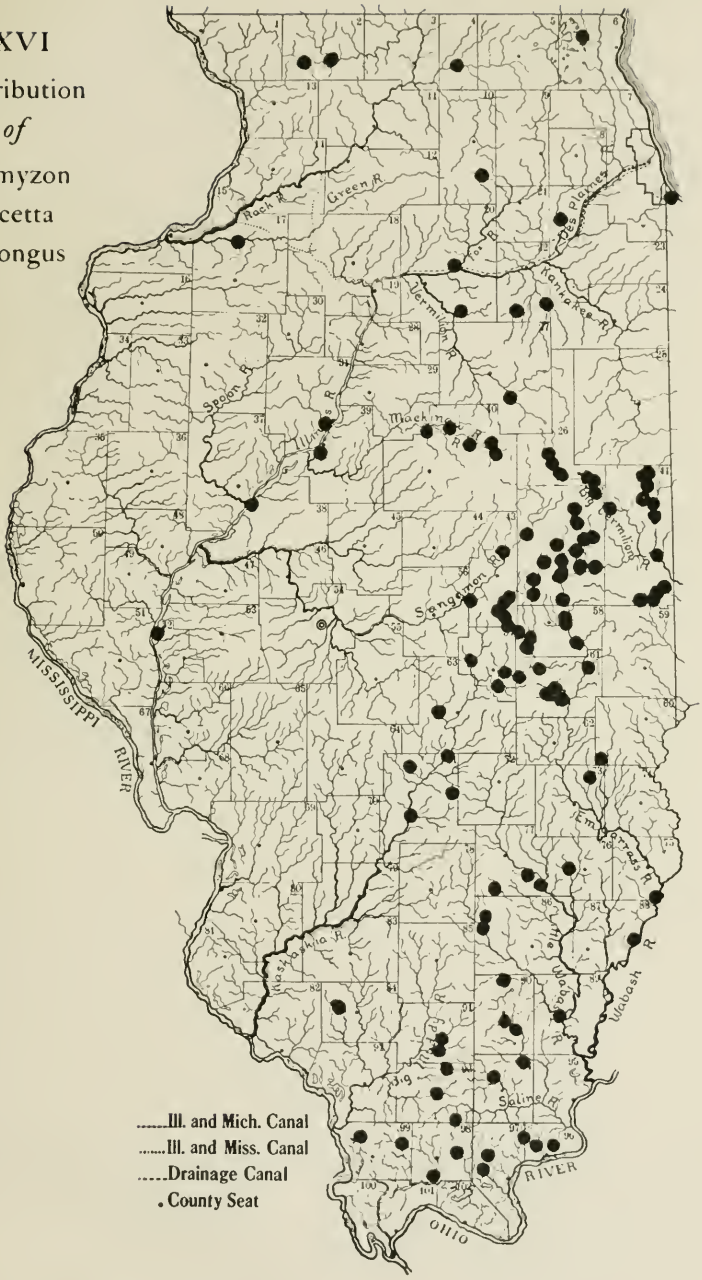
Distribution

of

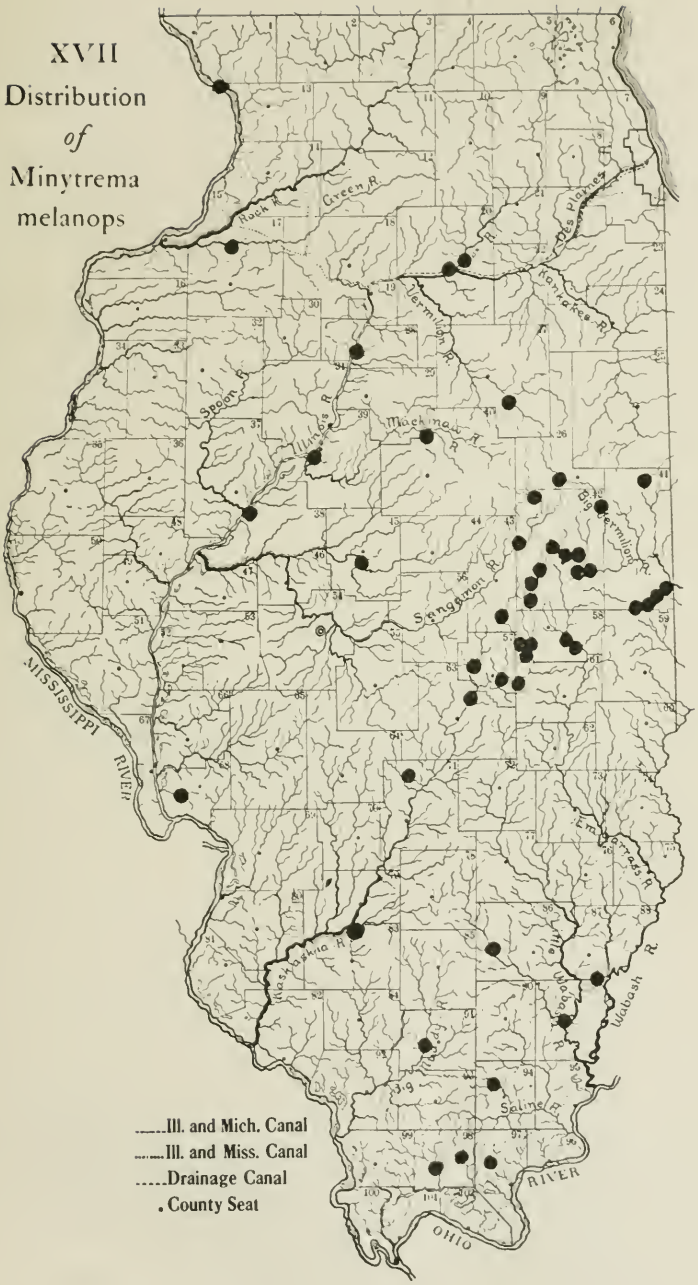
Erimyzon

sucetta

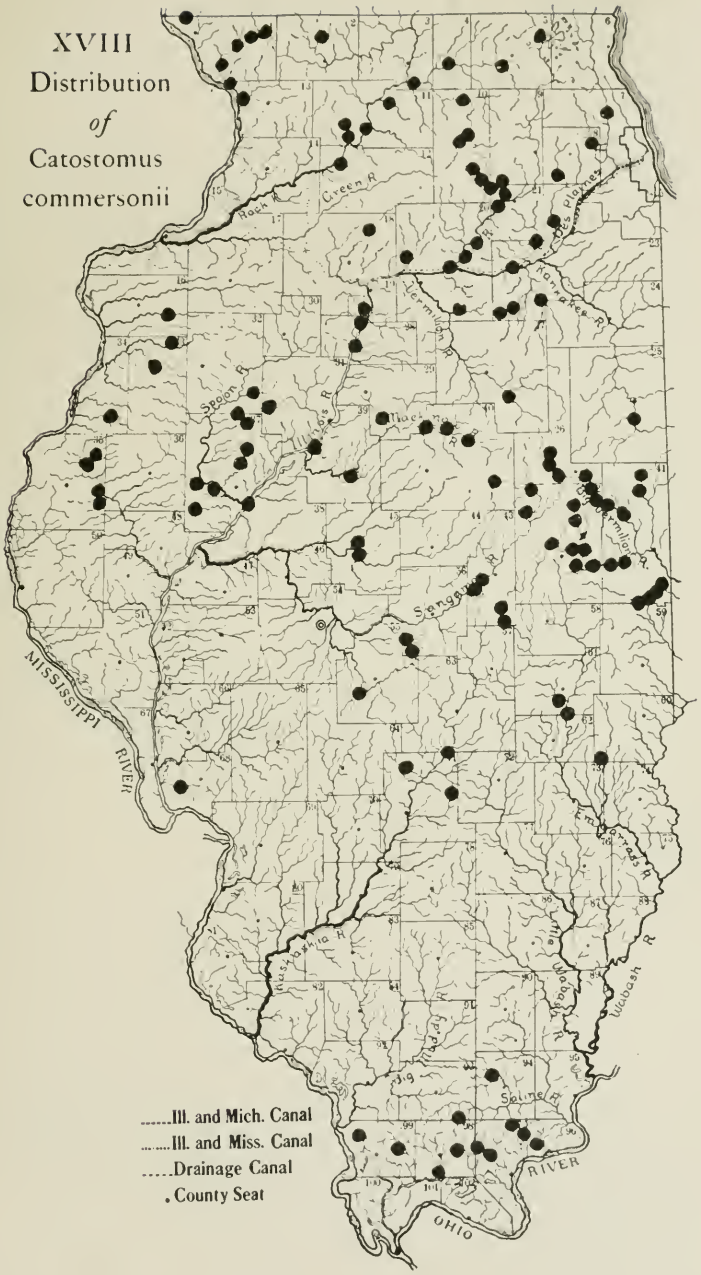
oblongus



XVII
Distribution
of
Minytrema
melanops



XVIII
Distribution
of
Catostomus
commersonii



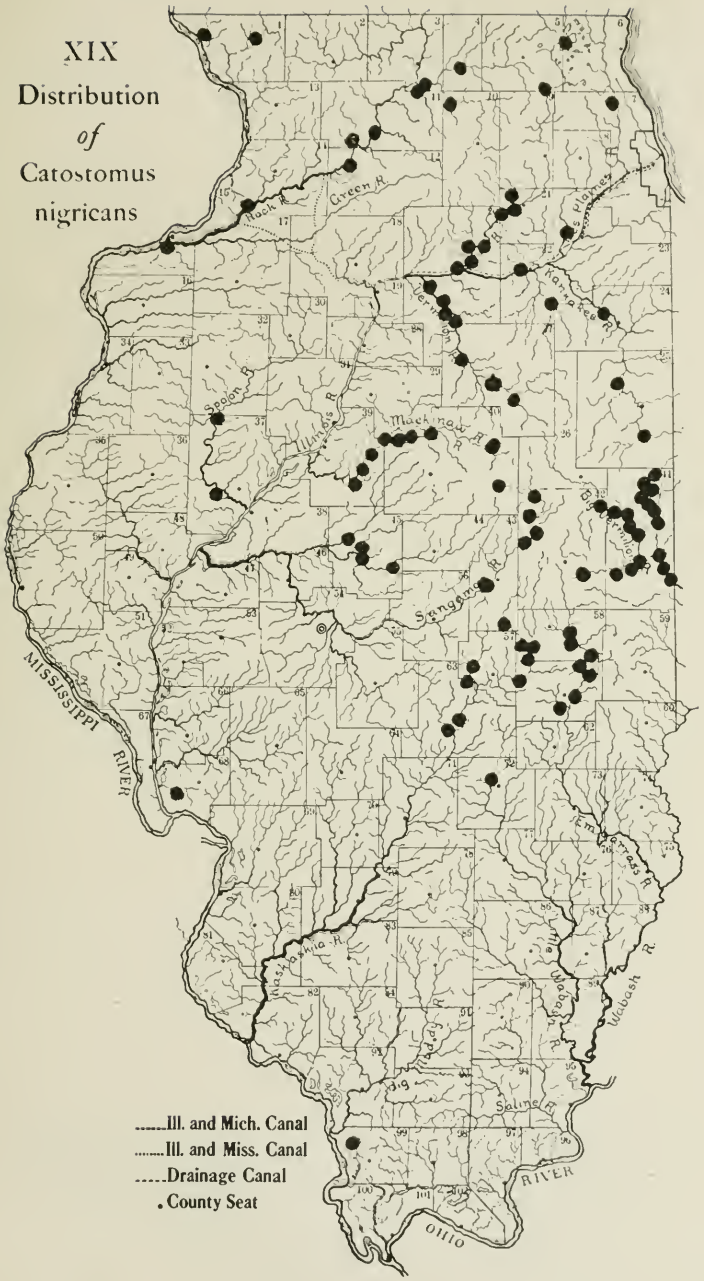
XIX

Distribution

of

Catostomus

nigricans



XX

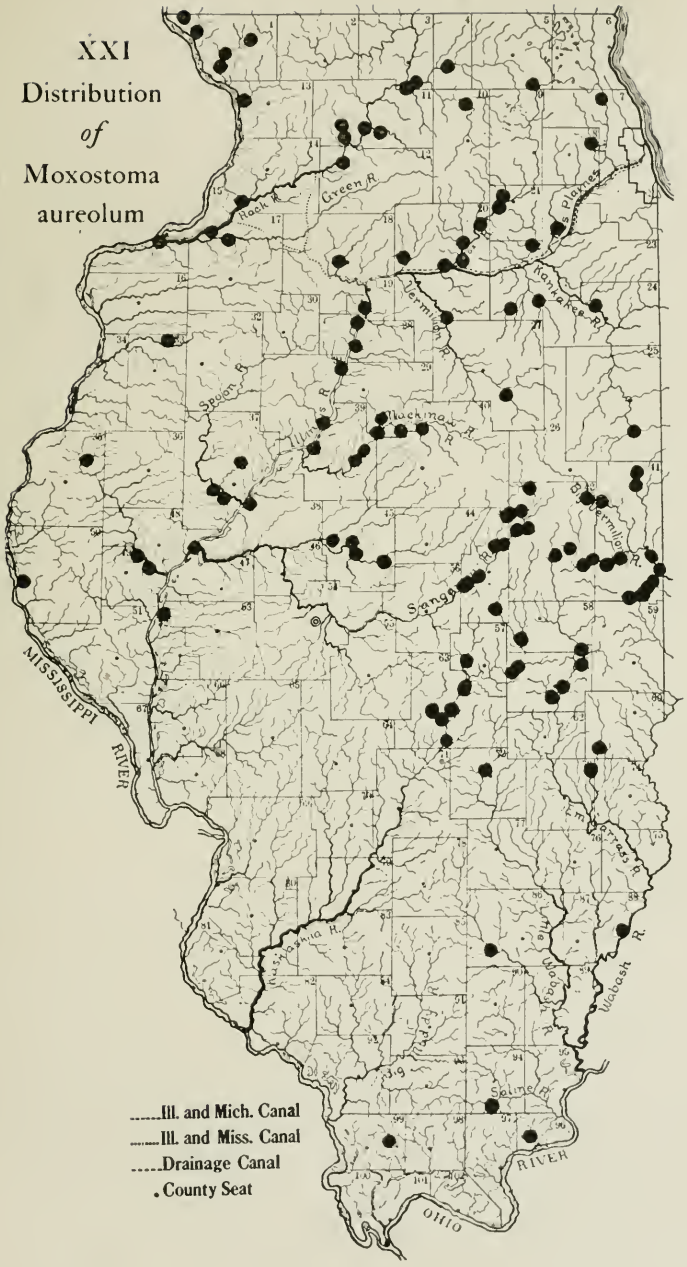
Distribution

of

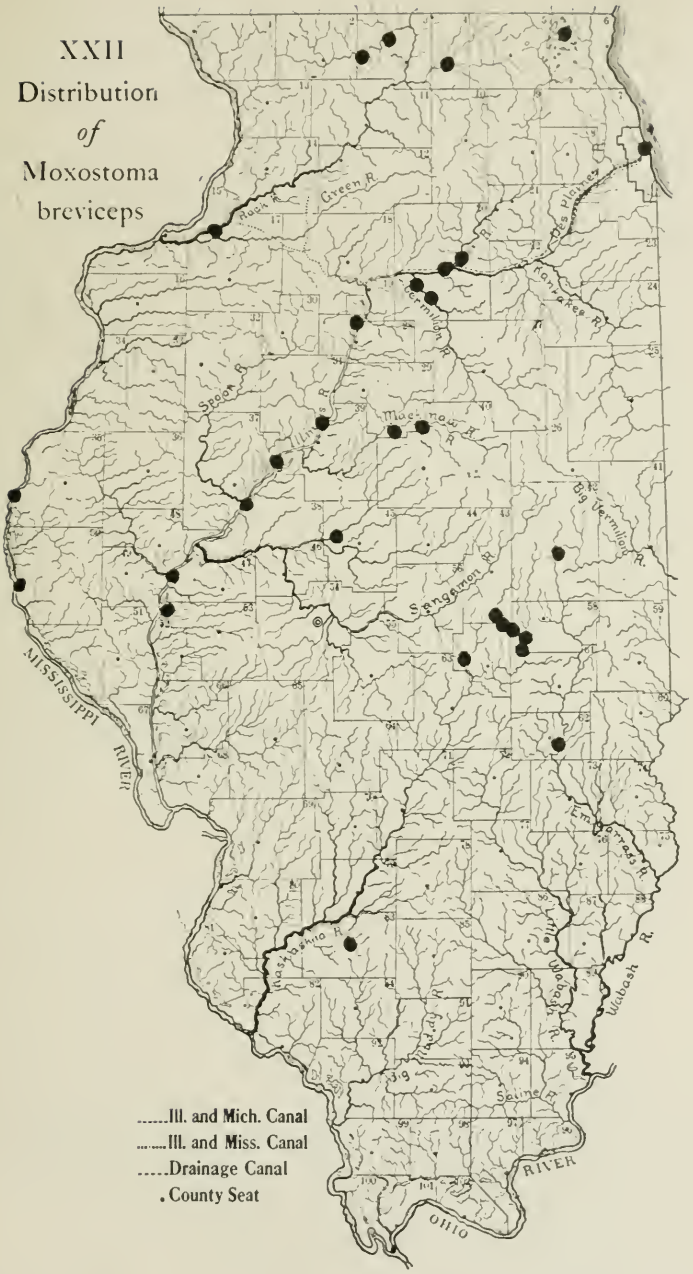
Moxostoma

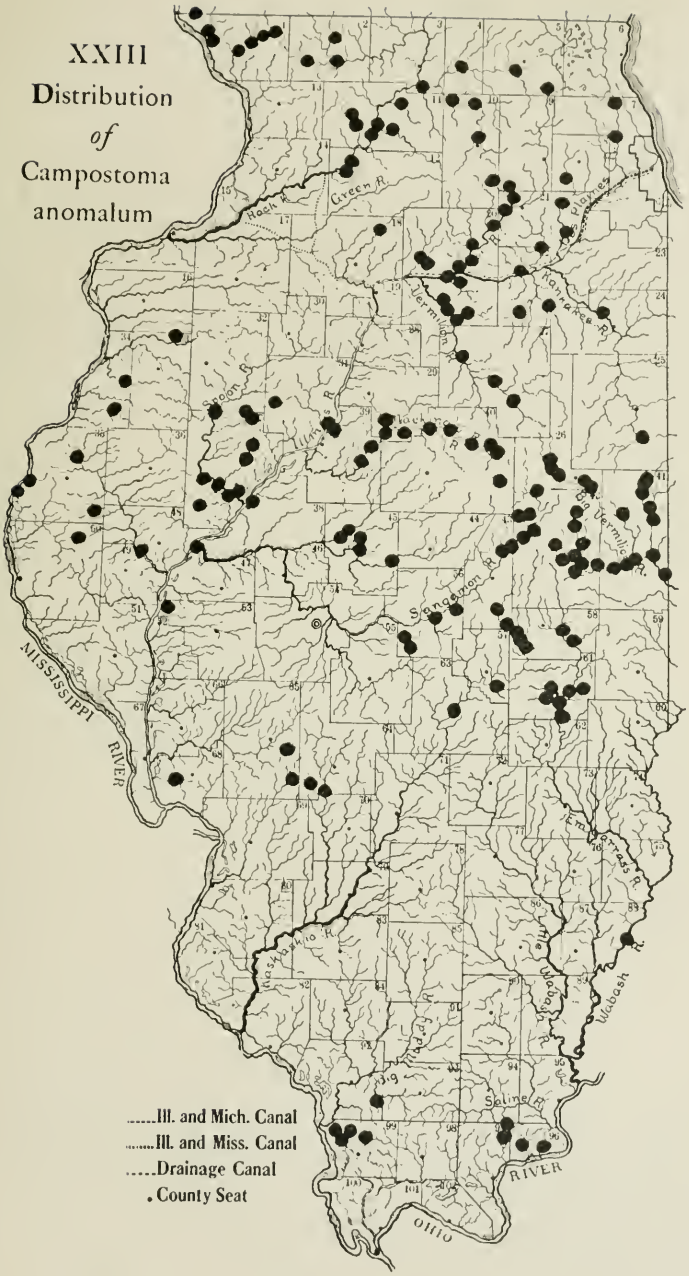
anisurum

XXI
Distribution
of
Moxostoma
aureolum



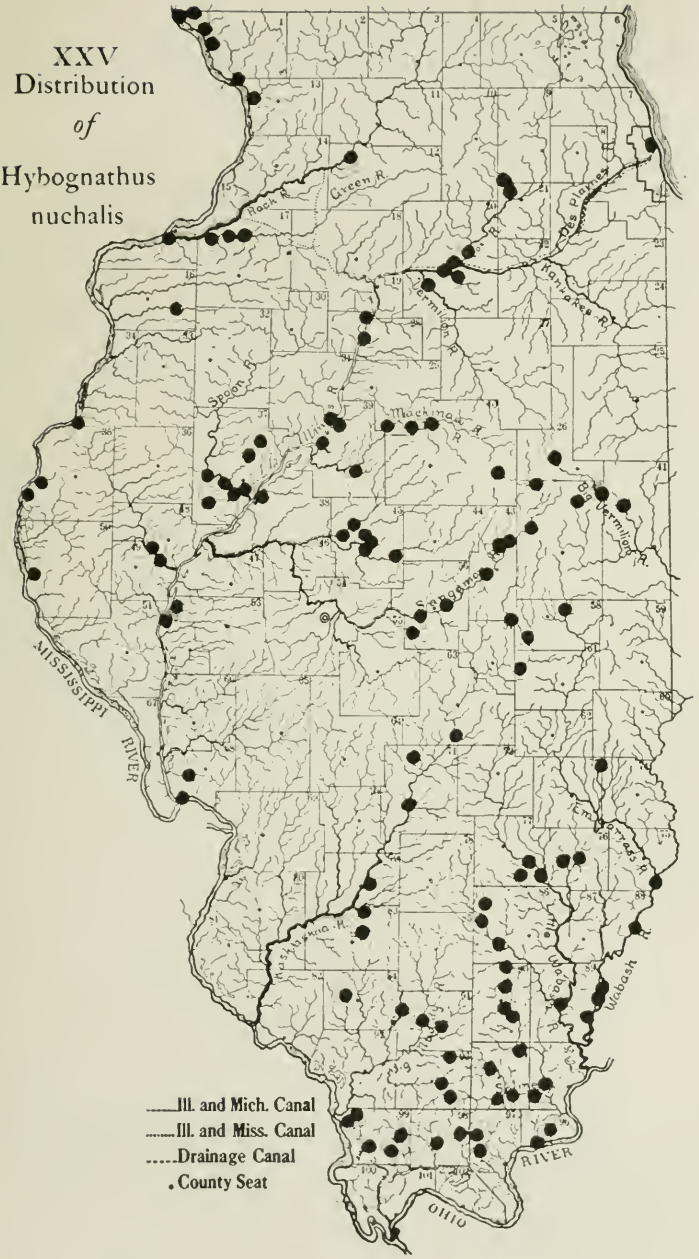
XXII
Distribution
of
Moxostoma
breviceps




XXIII
Distribution
of
Campostoma
anomalum
Rock R.
Green R.
Kankakee R.
Vermilion R.
Illinois R.
Sangamon R.
MISSISSIPPI
RIVER
Kaskaskia R.
Wabash R.
Saline R.
OHIO
RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

XXIV
Distribution
of
Chrosomus
erythrogaster

XXV
Distribution
of
Hybognathus
nuchalis



XXVI

Distribution

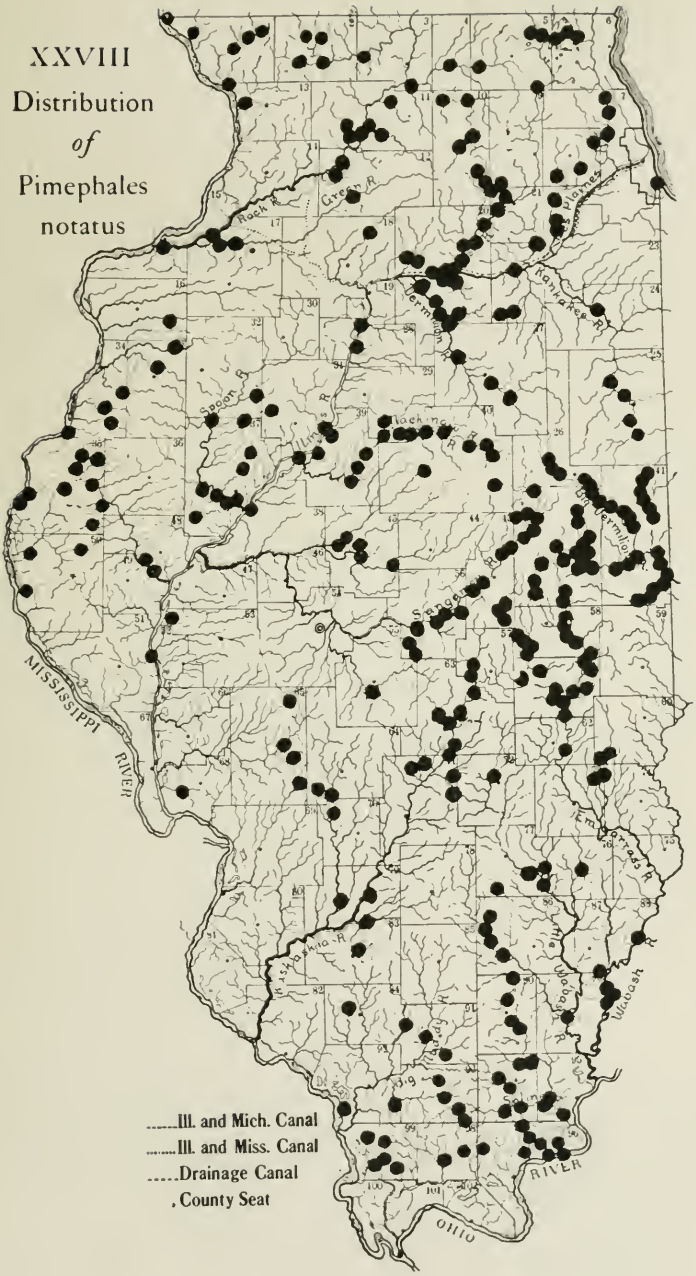
of

Hybognathus

nubila

XXVII
Distribution
of
Pimephales
promelas

XXVIII
Distribution
of
Pimephales
notatus



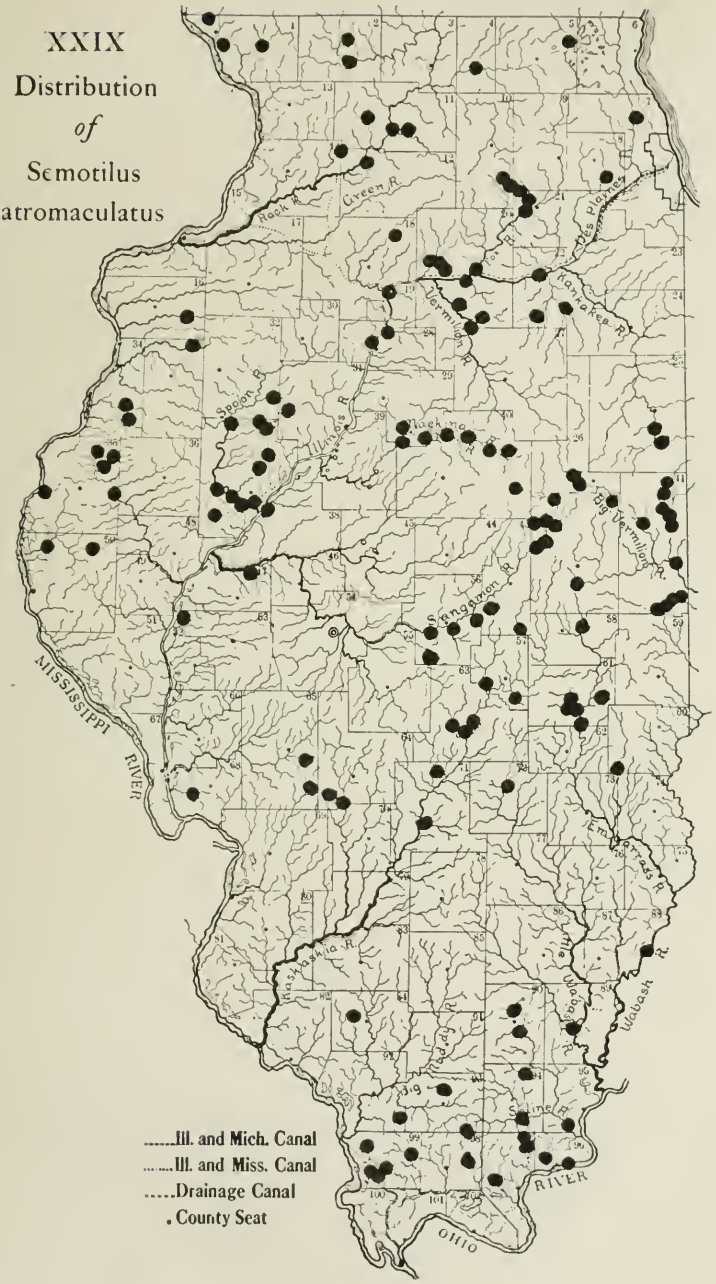
XXIX

Distribution

of

Semotilus

atromaculatus



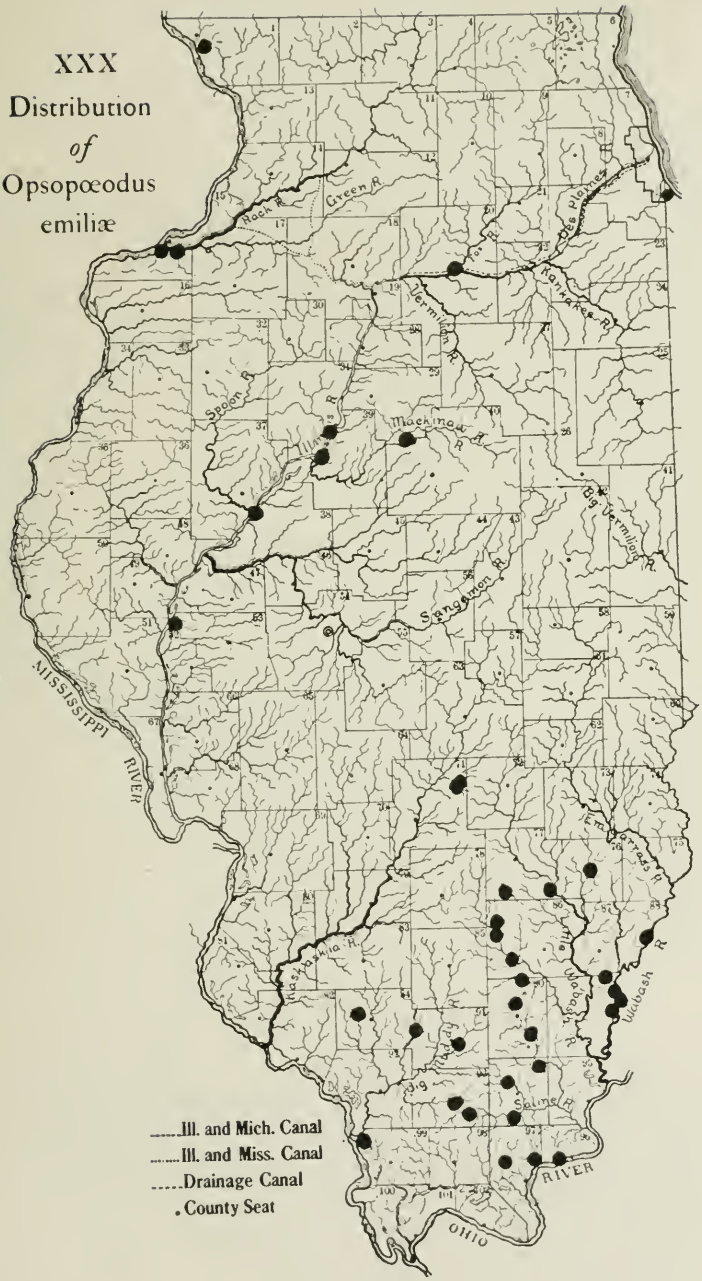
XXX

Distribution

of

Opsopœodus

emiliæ



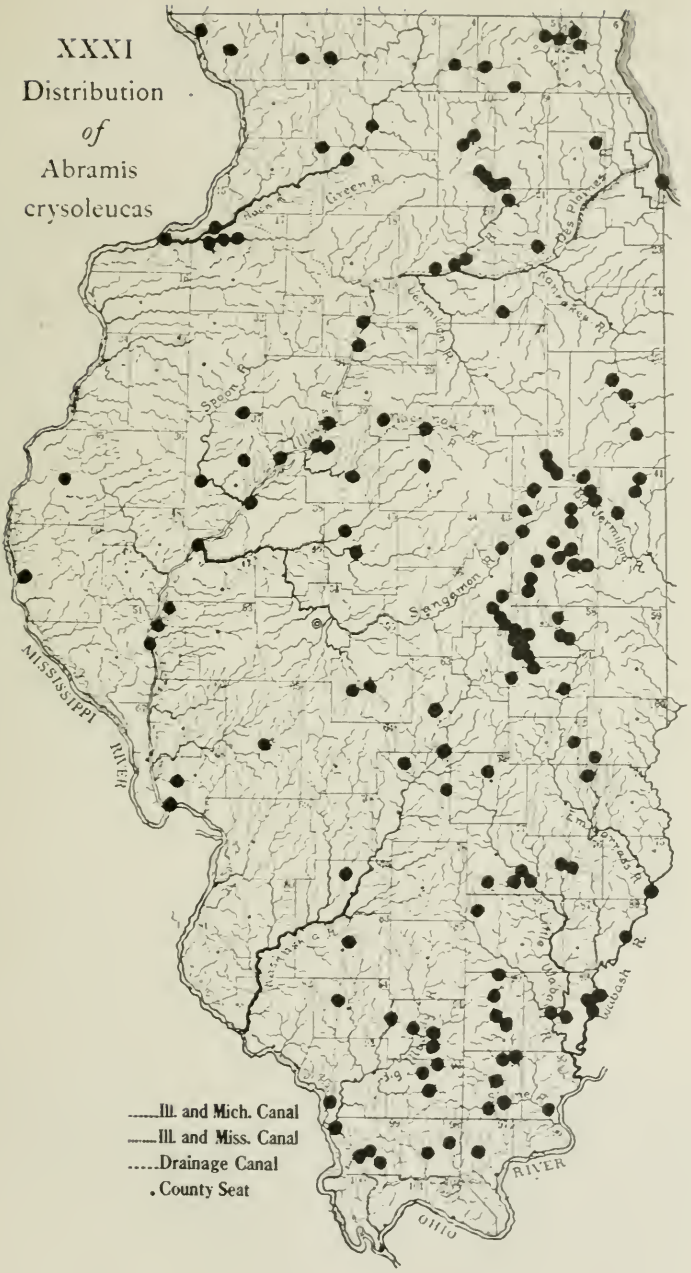
XXXI

Distribution

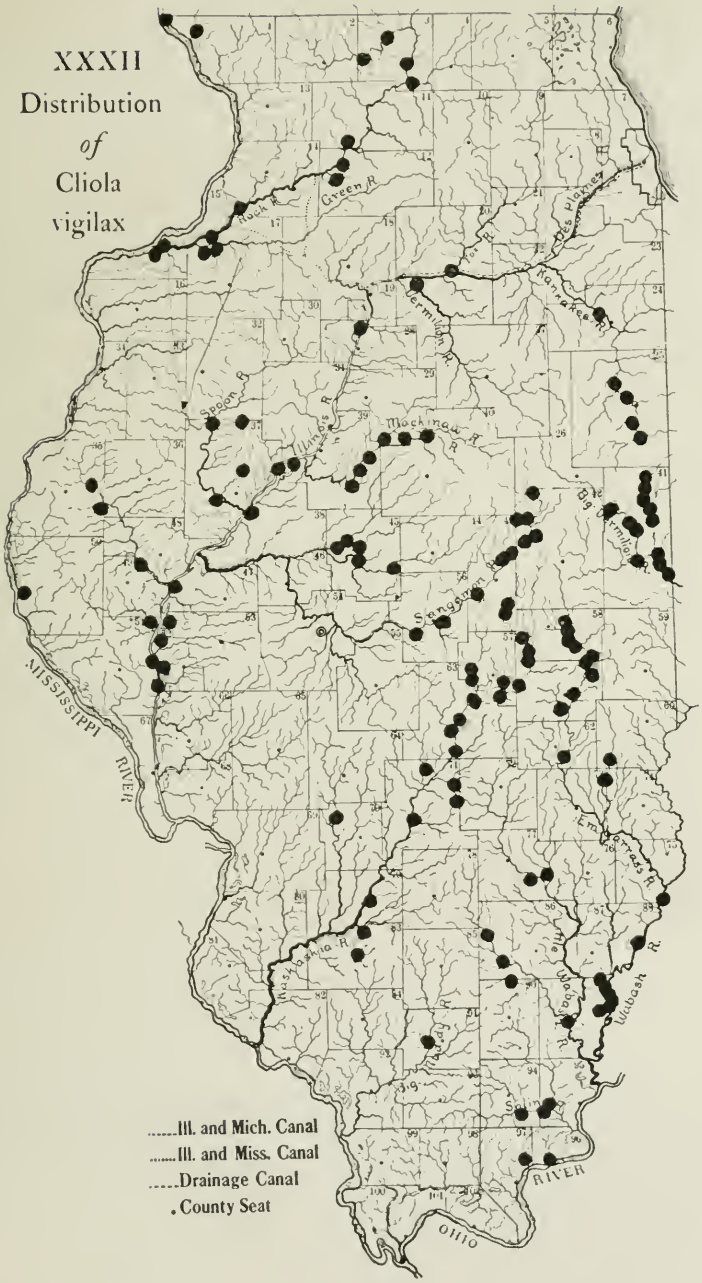
of

Abramis

crysoleucas



XXXII
Distribution
of
Cliola
vigilax



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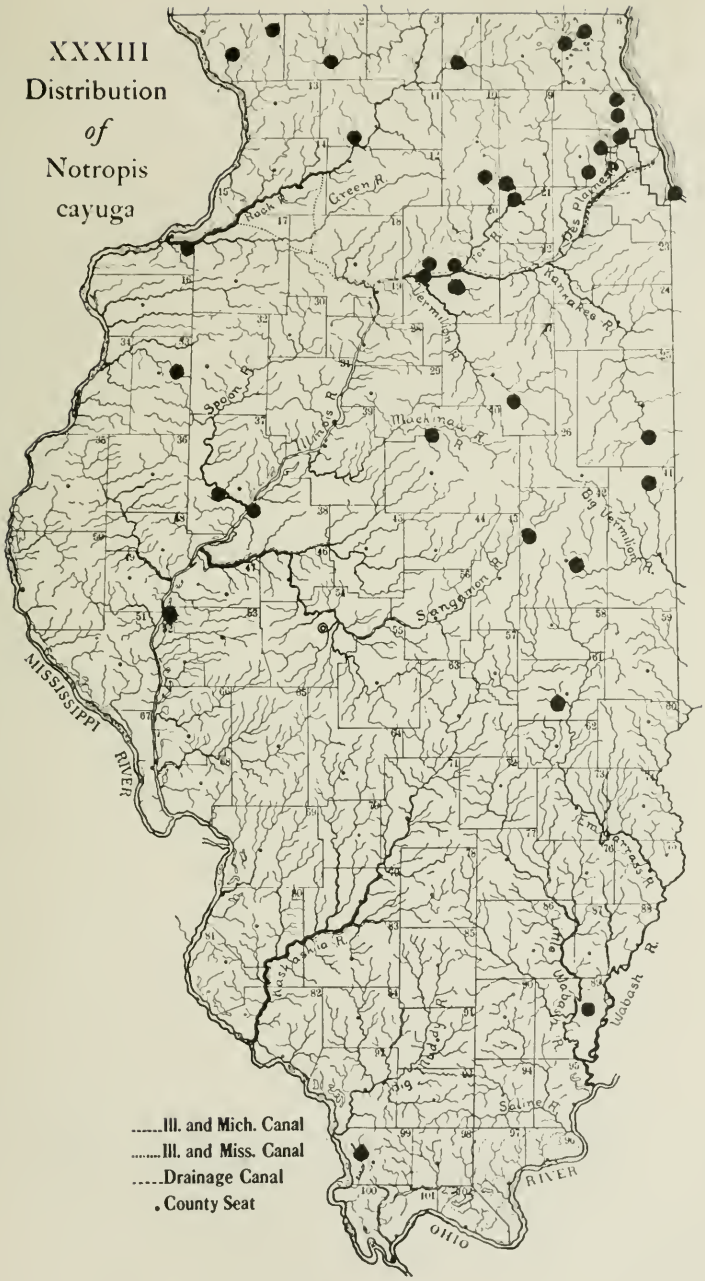
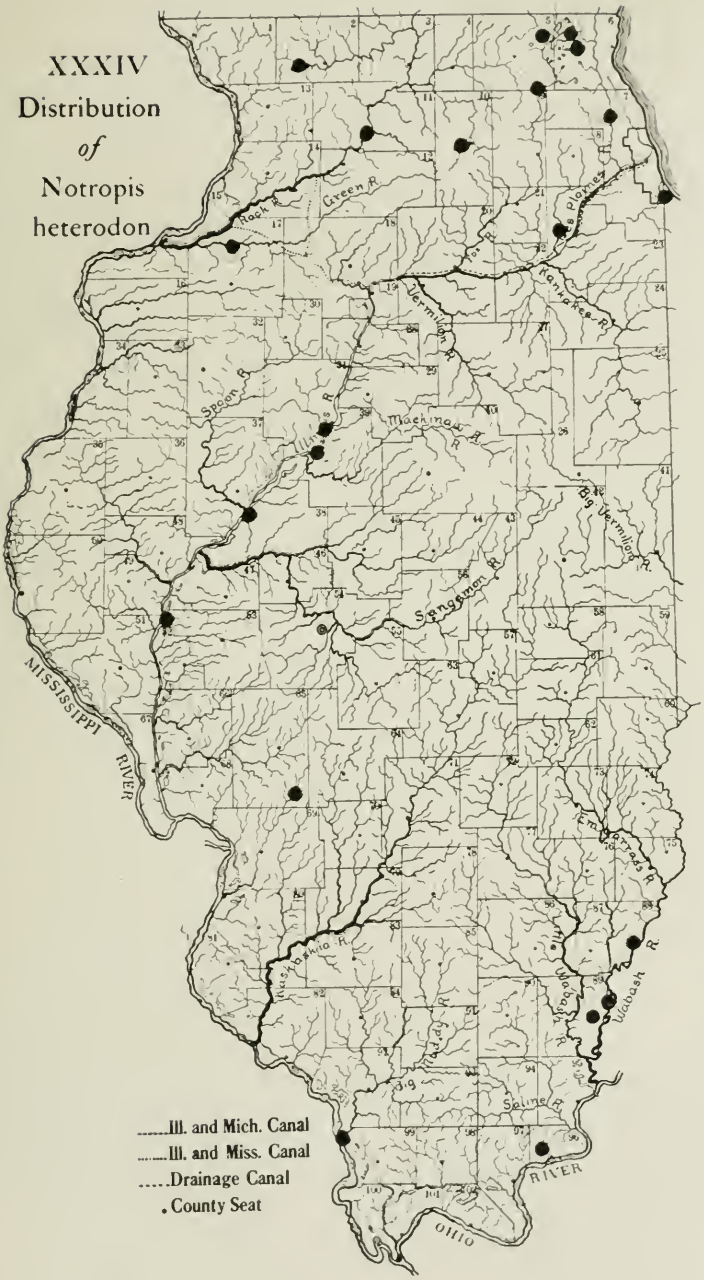
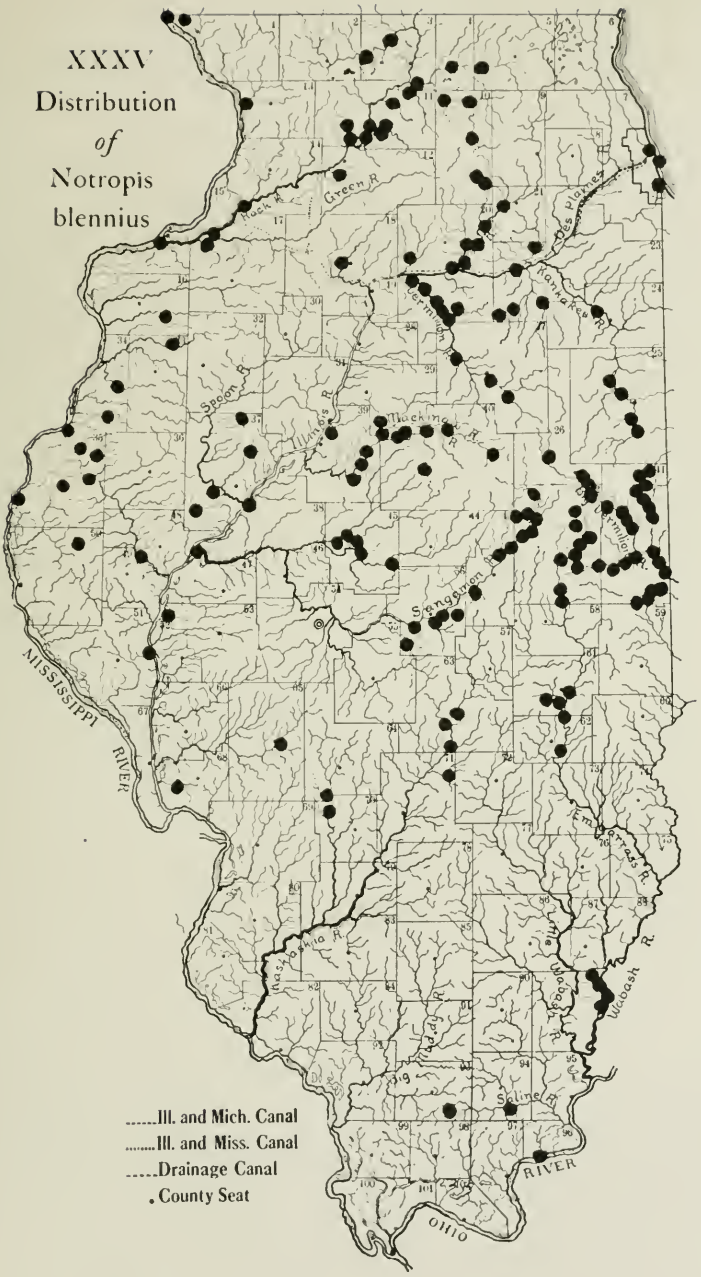
XXXIII
Distribution
of
Notropis
cayuga

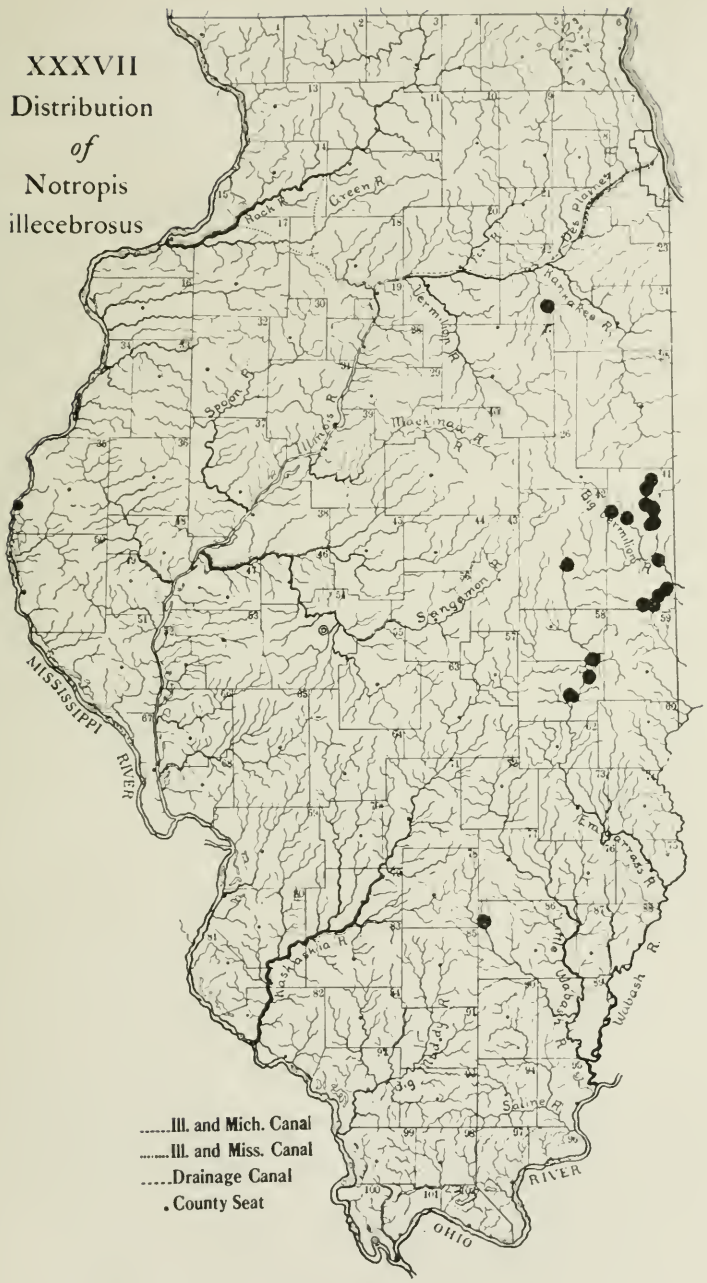



XXXIV
Distribution
of
Notropis
heterodon
Rock R.
Green R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Wabash R.
Little Wabash R.
Embarras R.
Big Muddy R.
Saline R.
OHIO RIVER
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

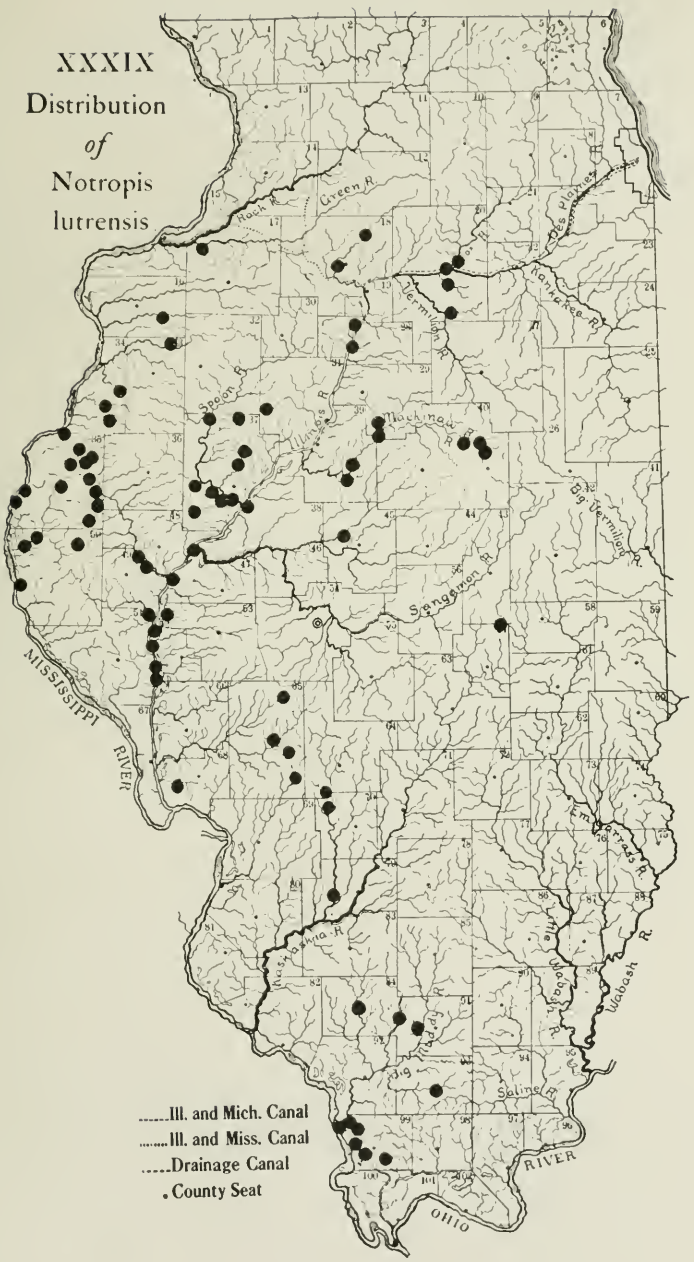

XXXV
Distribution
of
Notropis
blennius
Green R.
Spoon R.
Illinois R.
Sangamon R.
Embarras R.
Wabash R.
Saline R.
MISSISSIPPI
RIVER
OHIO
RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
-----Drainage Canal
. County Seat

XXXVI
Distribution
of
Notropis
gilberti
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

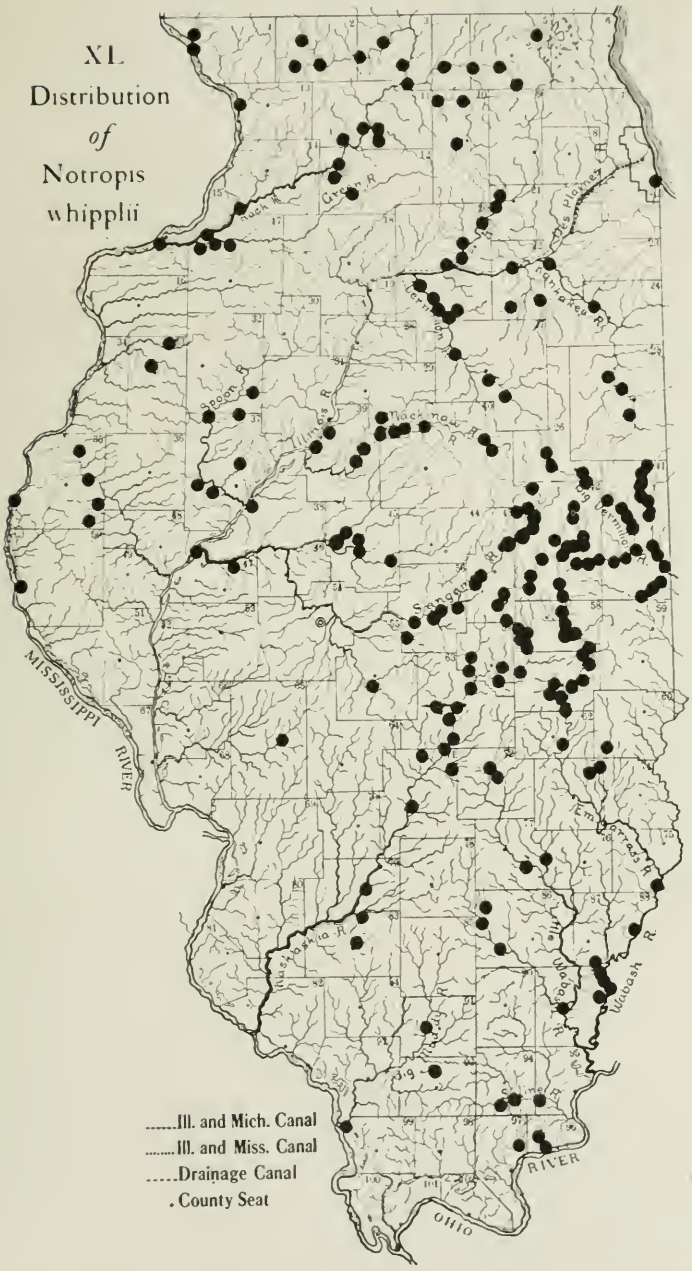
XXXVII
Distribution
of
Notropis
illecebrosus

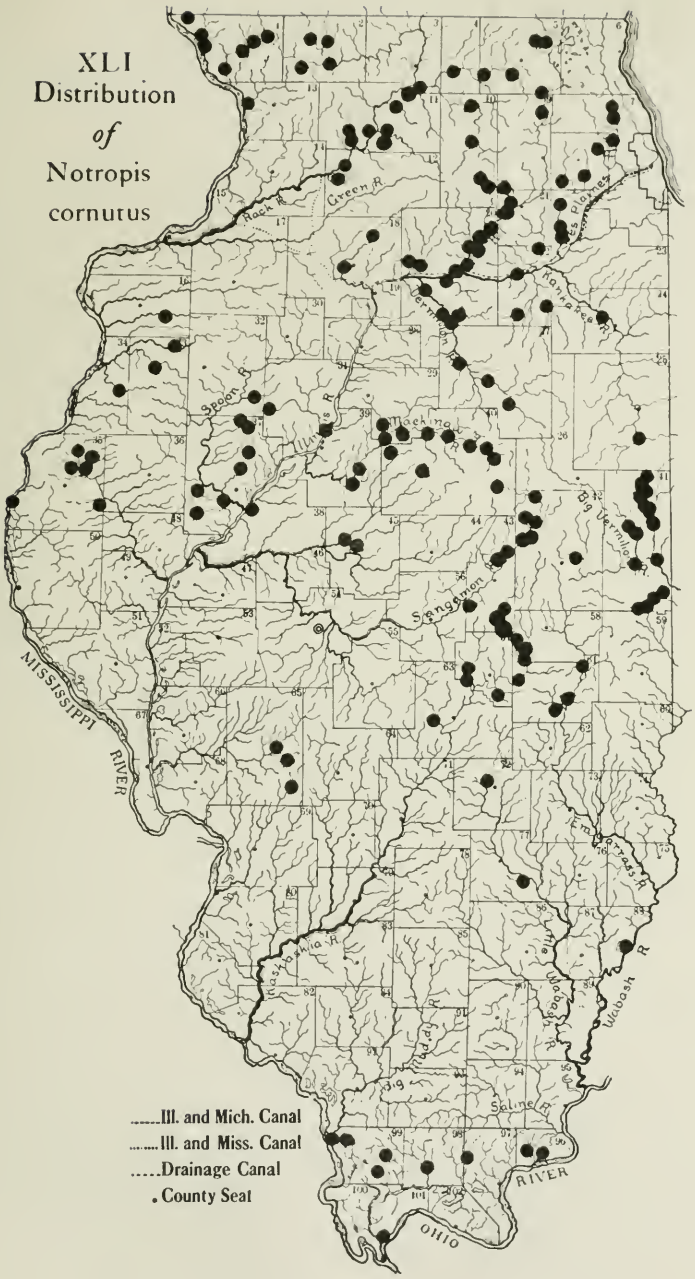


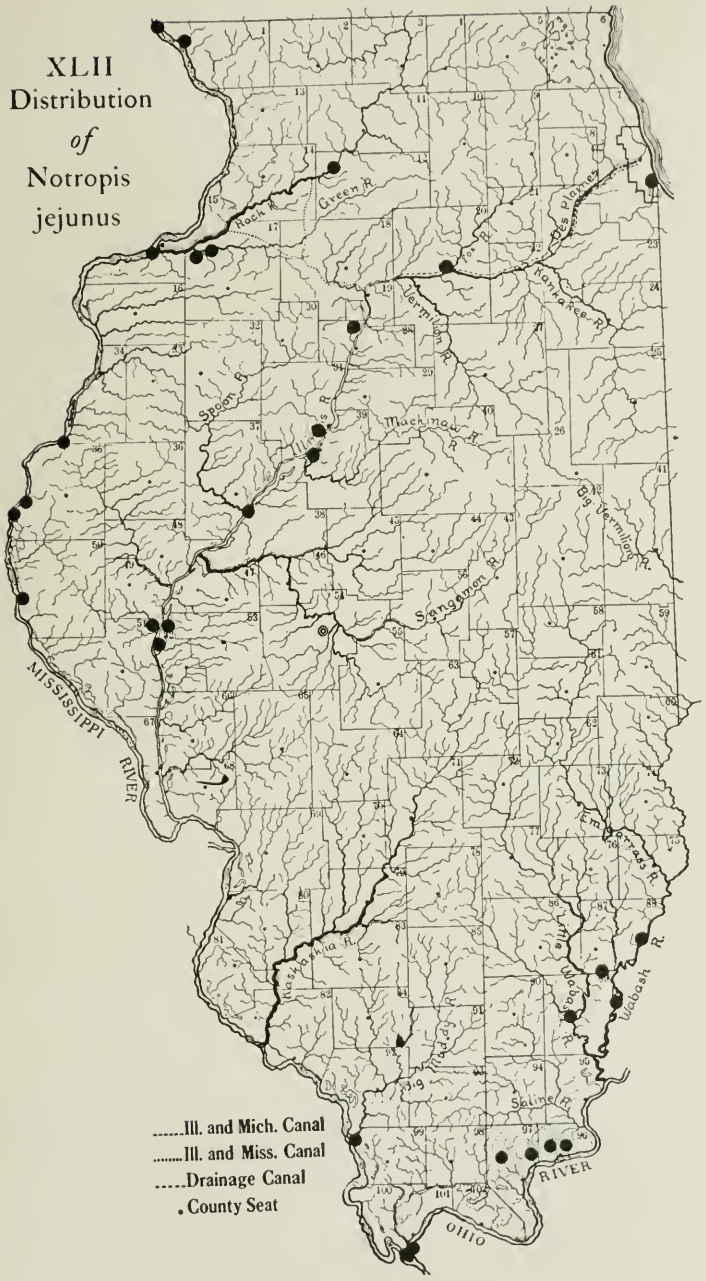
XXXVIII
Distribution
of
Notropis
hudsonius

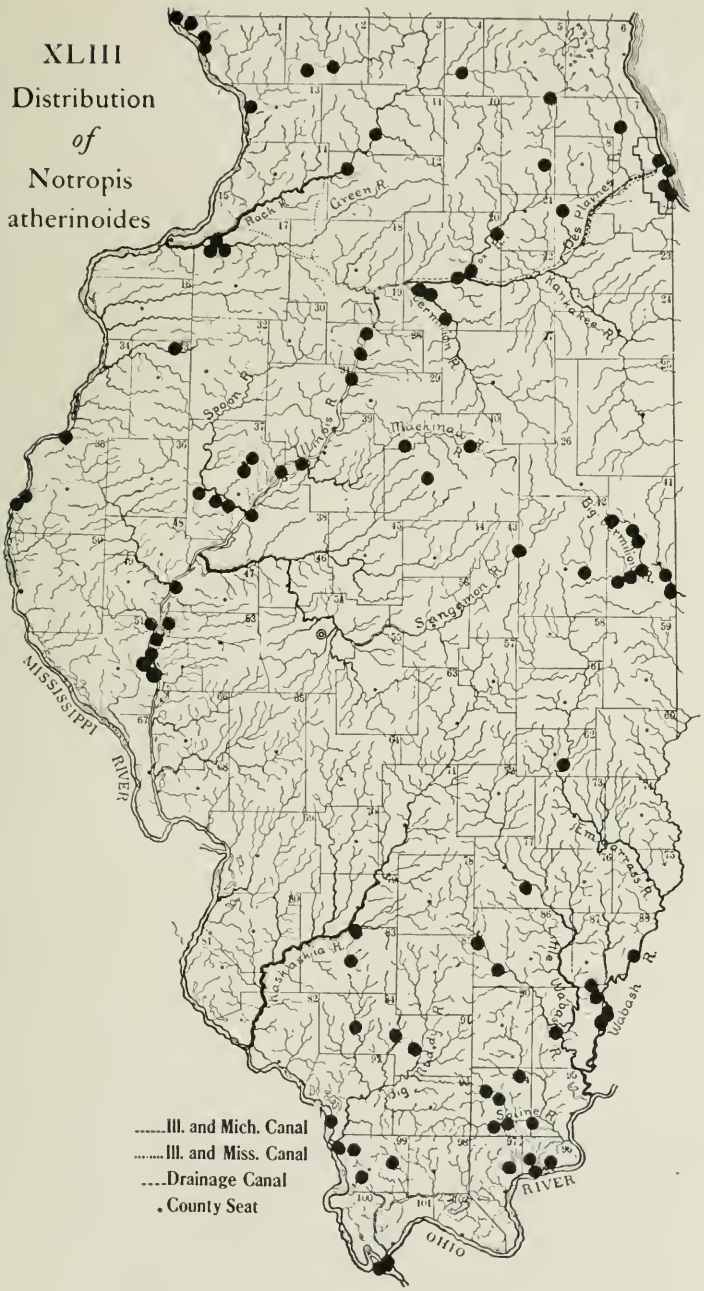

XXXIX
Distribution
of
Notropis
lutrensis
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI
RIVER
Embarras R.
Little Wabash R.
Wabash R.
Big Muddy R.
Saline R.
OHIO
RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

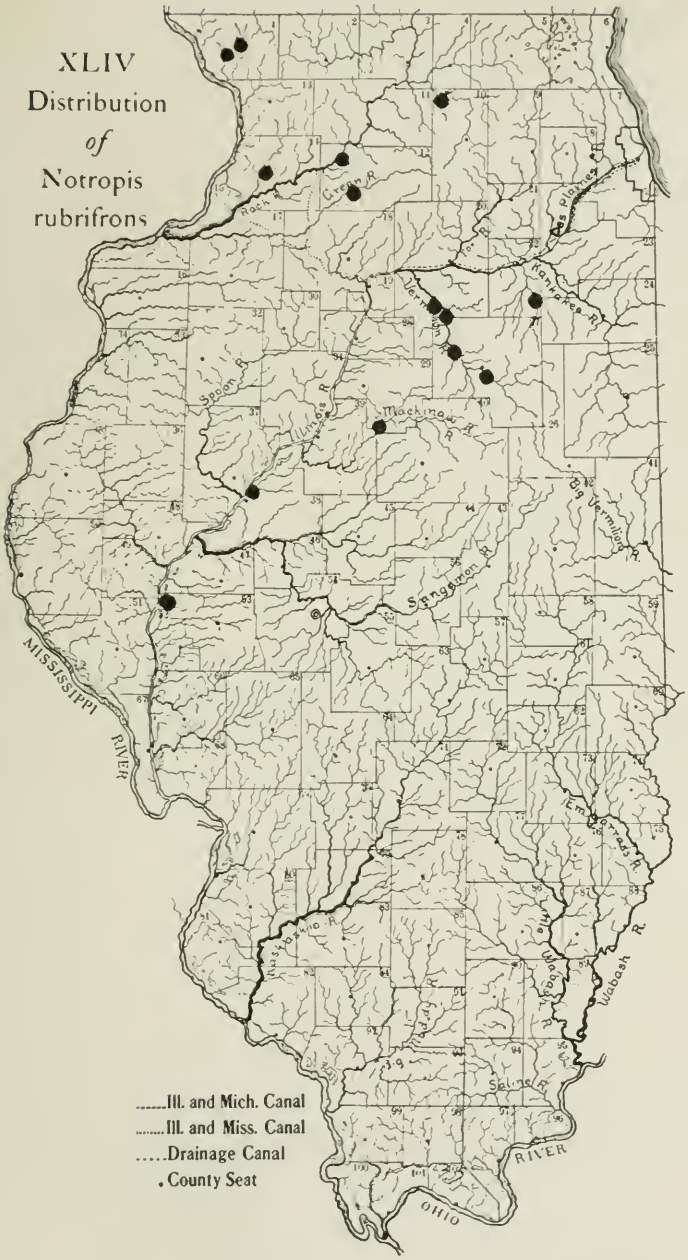
XL.
Distribution
of
Notropis
whipplii

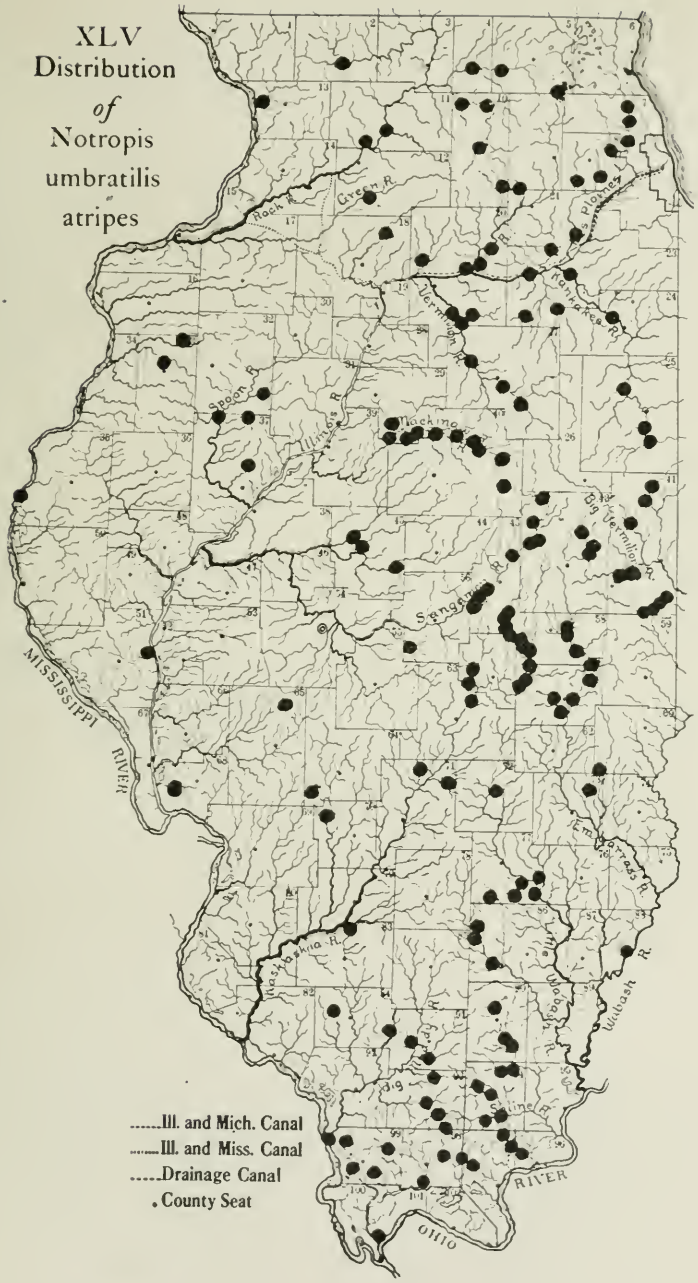



XLI
Distribution
of
Notropis
cornutus
Rock R.
Green R.
Kankakee R.
Iroquois R.
Spoon R.
Illinois R.
Sangamon R.
Big Vermilion R.
Little Vermilion R.
Embarras R.
Wabash R.
Little Wabash R.
Saline R.
Big Muddy R.
Kaskaskia R.
MISSISSIPPI RIVER
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

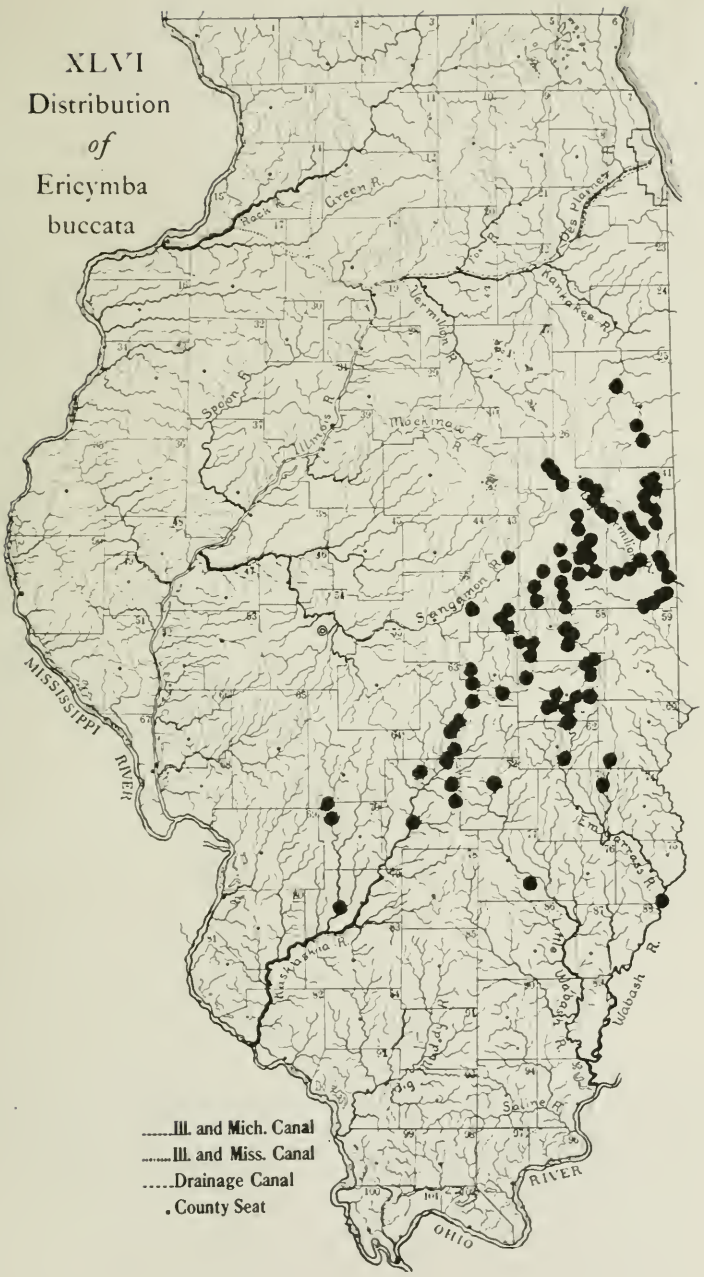

XLII
Distribution
of
Notropis
jejunus
Rock R.
Green R.
Kankakee R.
Vermilion R.
Mackinaw R.
Spoon R.
Illinois R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Little Wabash R.
Wabash R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat


XLIII
Distribution
of
Notropis
atherinoides
Rock R.
Green R.
Kankakee R.
Illinois R.
Mackinaw R.
Sangamon R.
Big Vermilion R.
Little Wabash R.
Wabash R.
Saline R.
MISSISSIPPI RIVER
OHIO RIVER
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

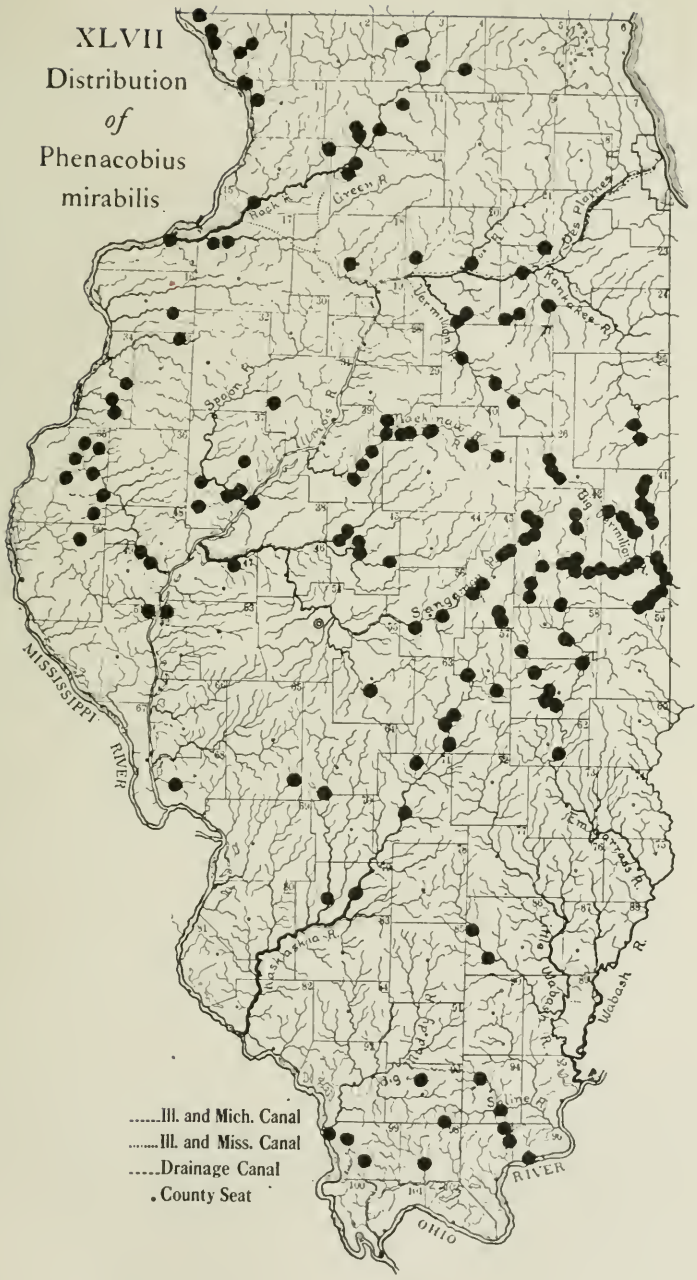

XLIV
Distribution
of
Notropis
rubrifrons
Rock R.
Green R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat


XLV
Distribution
of
Notropis
umbratilis
atripes
Rock R.
Green R.
Spoon R.
Illinois R.
Vermilion R.
Kankakee R.
Iroquois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Saline R.
Big Muddy R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

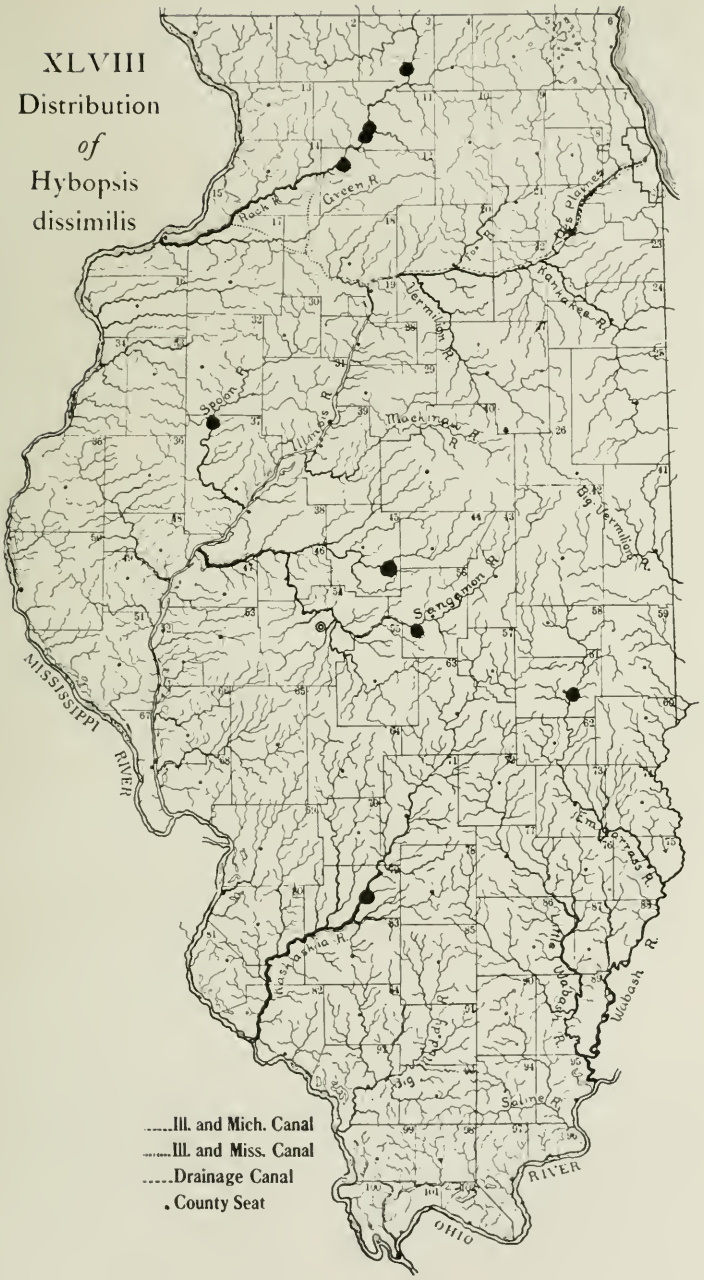
XLVI
Distribution
of
Ericymba
buccata



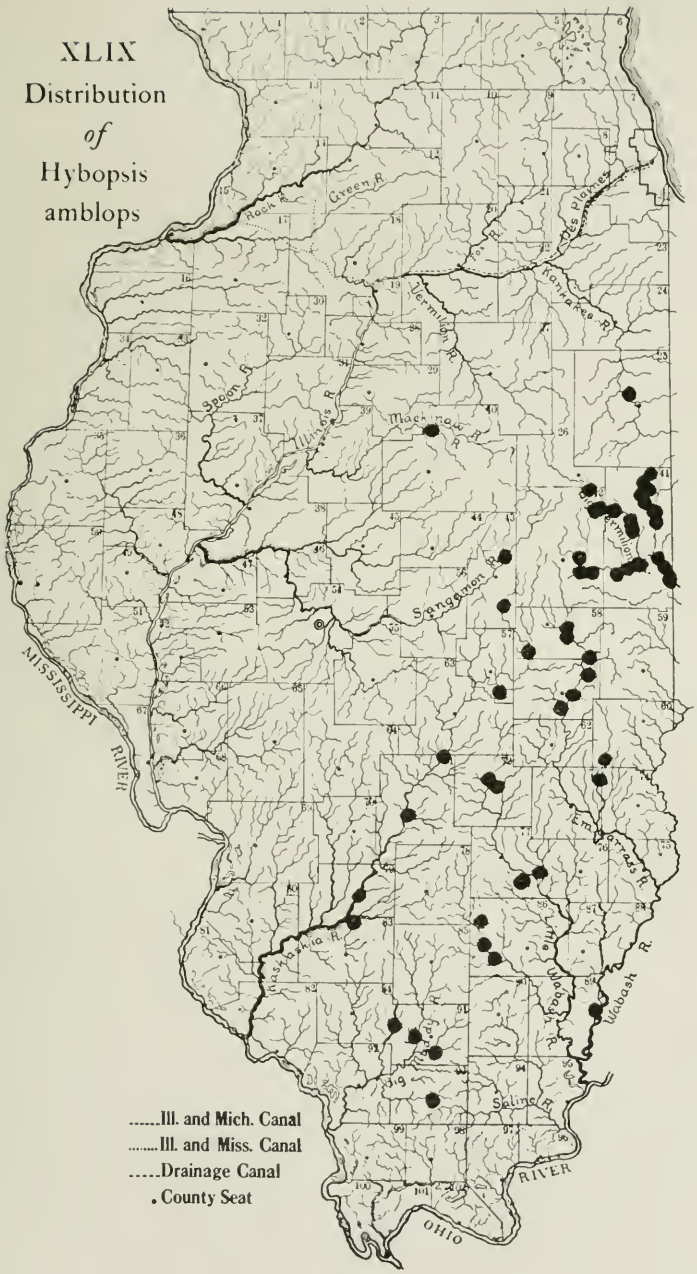
XLVII
Distribution
of
Phenacobius
mirabilis



XLVIII
Distribution
of
Hybopsis
dissimilis



XLIX
Distribution
of
Hybopsis
amblops



L
Distribution
of
Hybopsis
storerianus
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Sangamon R.
Vermilion R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Saline R.
RIVER
Ohio
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

LI

Distribution

of

Hybopsis

kentuckiensis

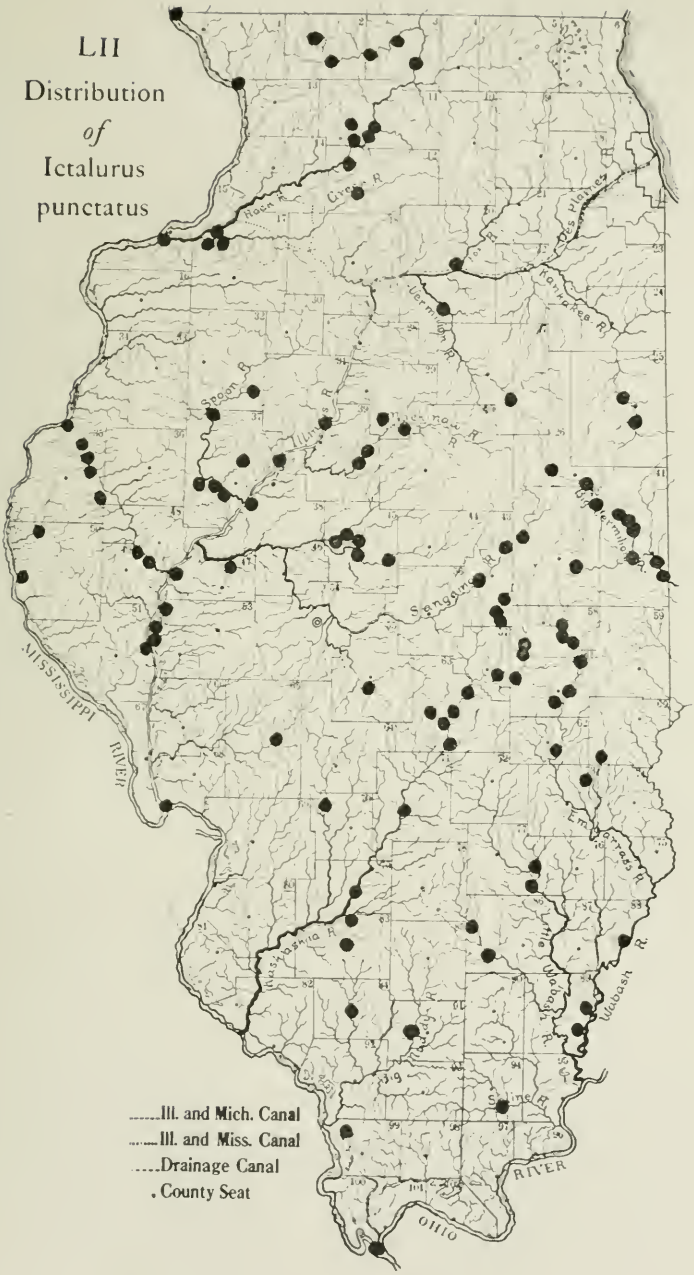
LII

Distribution

of

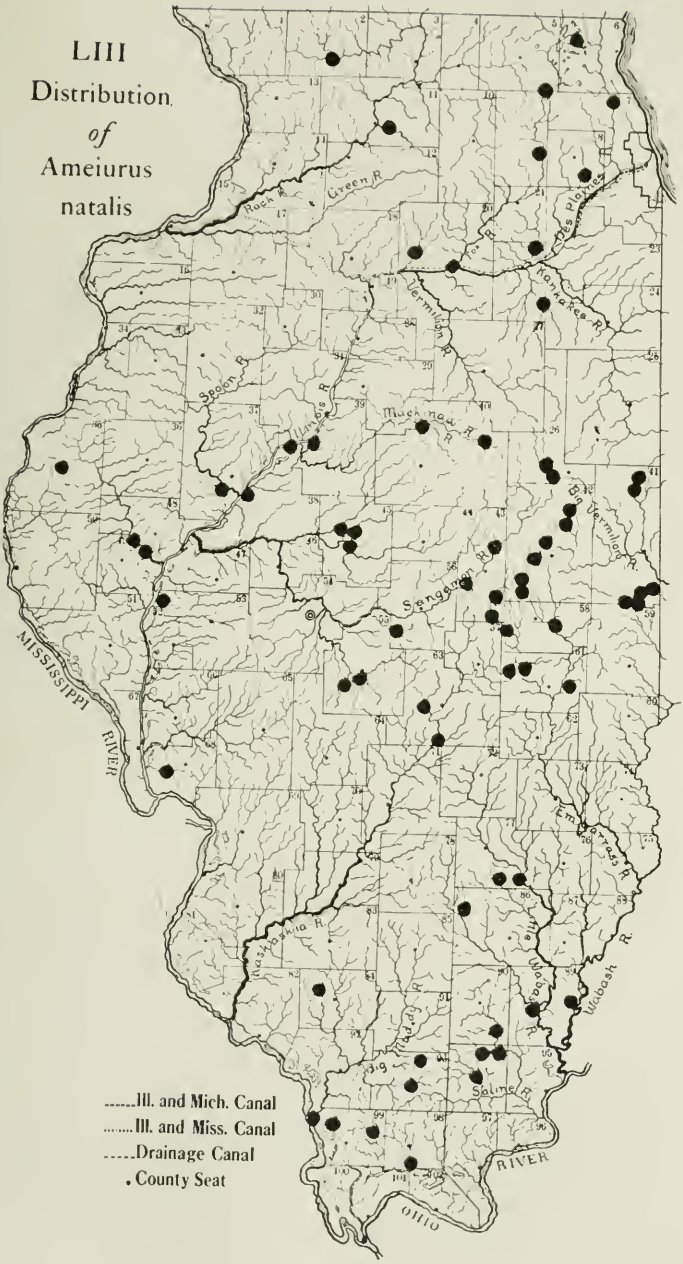
Ictalurus

punctatus



LIII

Distribution *of* Ameiurus natalis



LIV
Distribution
of
Ameiurus
nebulosus
Green R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Saline R.
OHIO RIVER
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

LV

Distribution

of

Ameiurus

melas

LVI
Distribution
of
Leptops
olivaris
Rock R.
Green R.
Vermilion R.
Kankakee R.
Illinois R.
Spoon R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
..... Drainage Canal
. County Seat

LVII

Distribution

of

Noturus

flavus

LVIII

Distribution

of

Schilbeodes

gyrinus

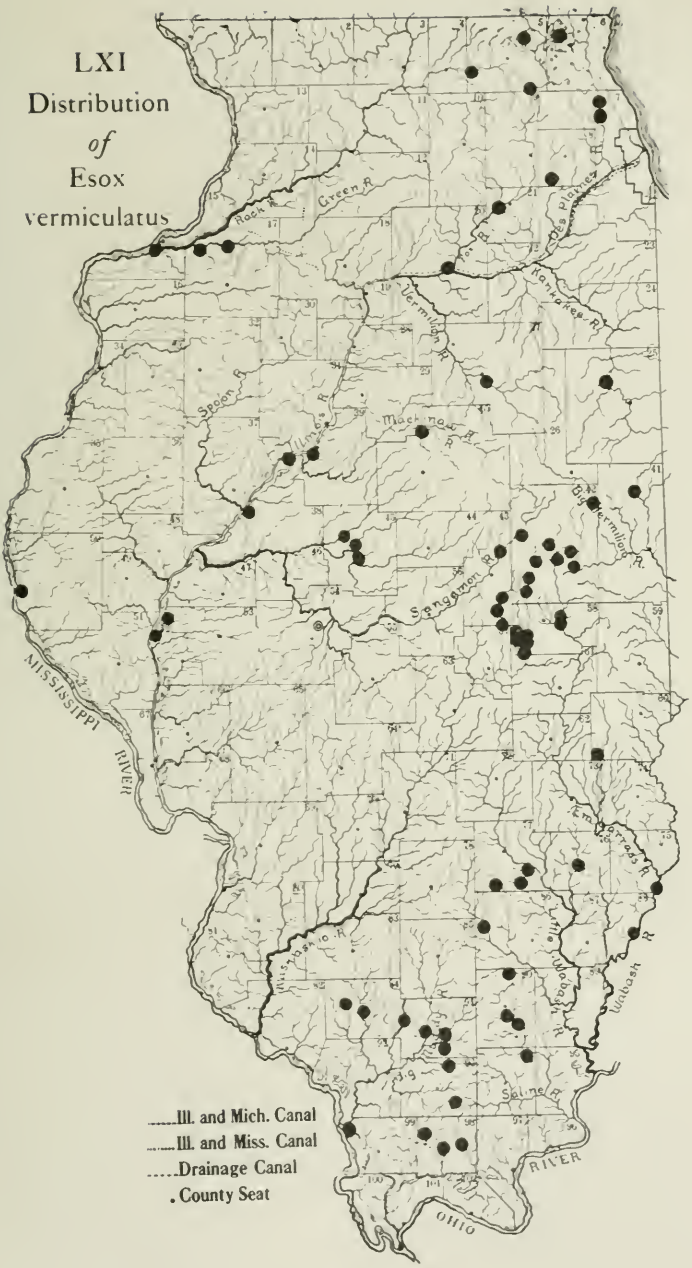
LX

Distribution

of

Umbra

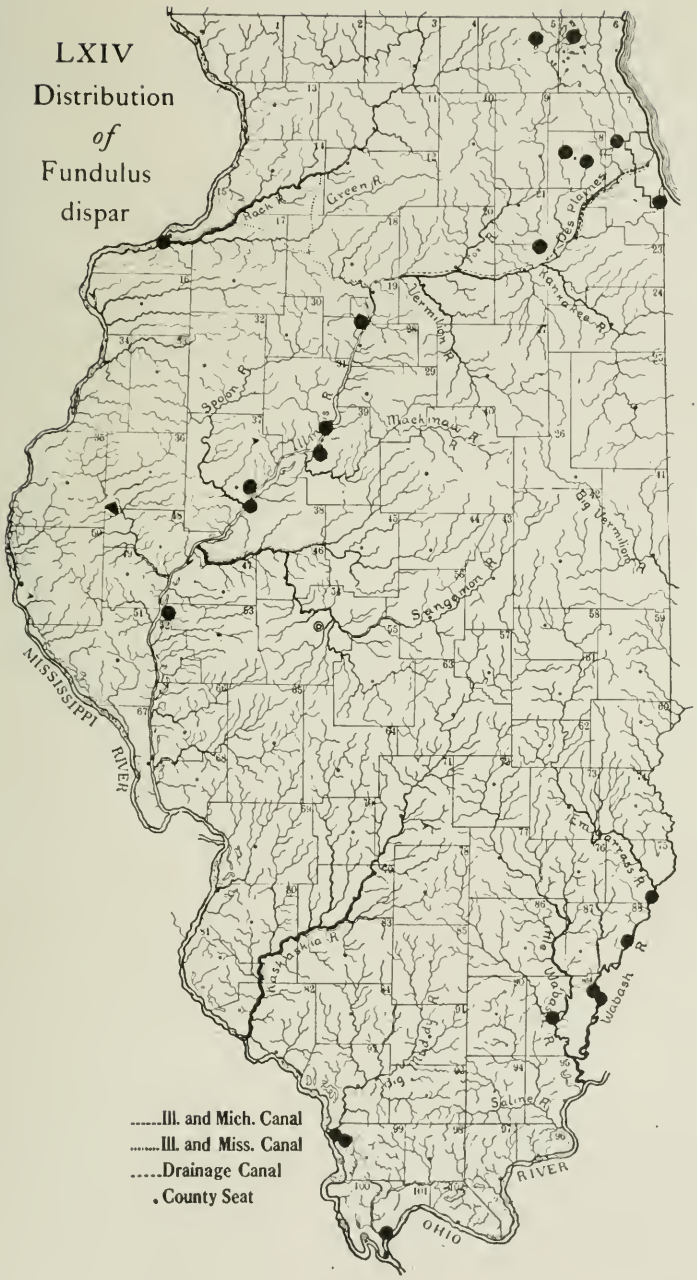
limi

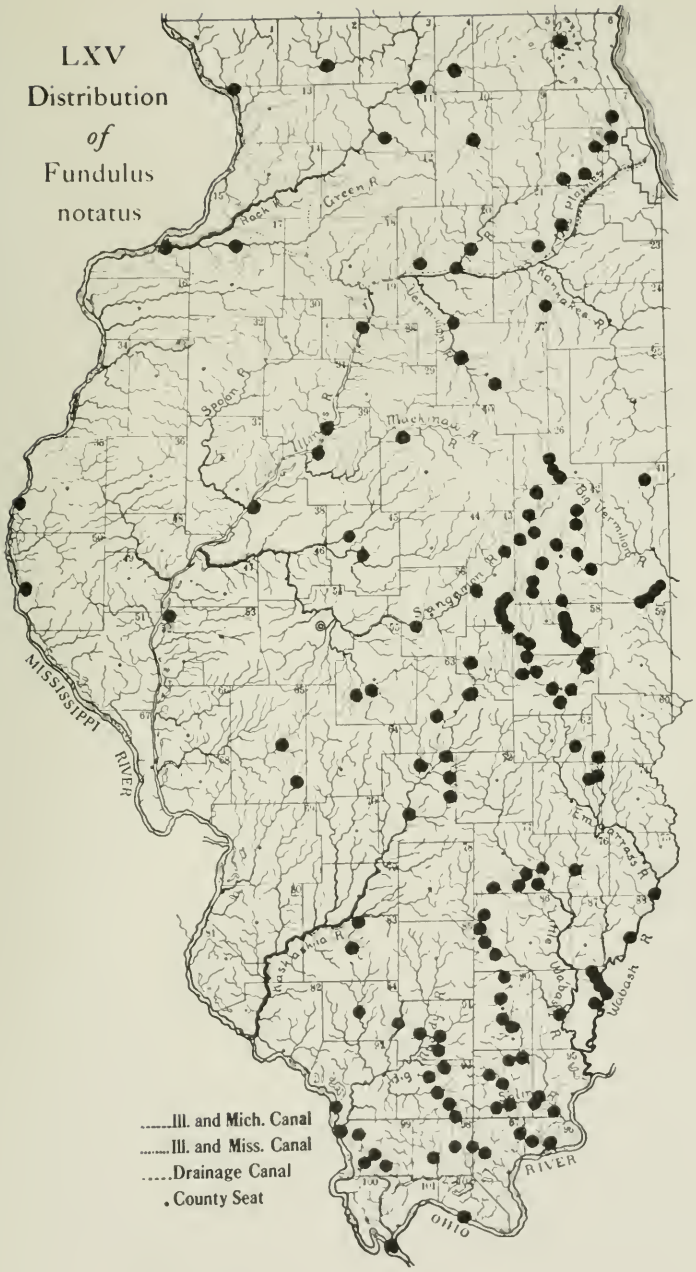

LXI
Distribution
of
Esox
vermiculatus
Rock R.
Green R.
Big Vermilion R.
Kaskaskia R.
Spoon R.
Illinois R.
Mackinaw R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

LXII
Distribution
of
Esox
lucius
Rock R.
Green R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Kaskaskia R.
Big Muddy R.
Saline R.
Wabash R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

LXIII
Distribution
of
Fundulus
diaphanus
menona

LXIV
Distribution
of
Fundulus
dispar

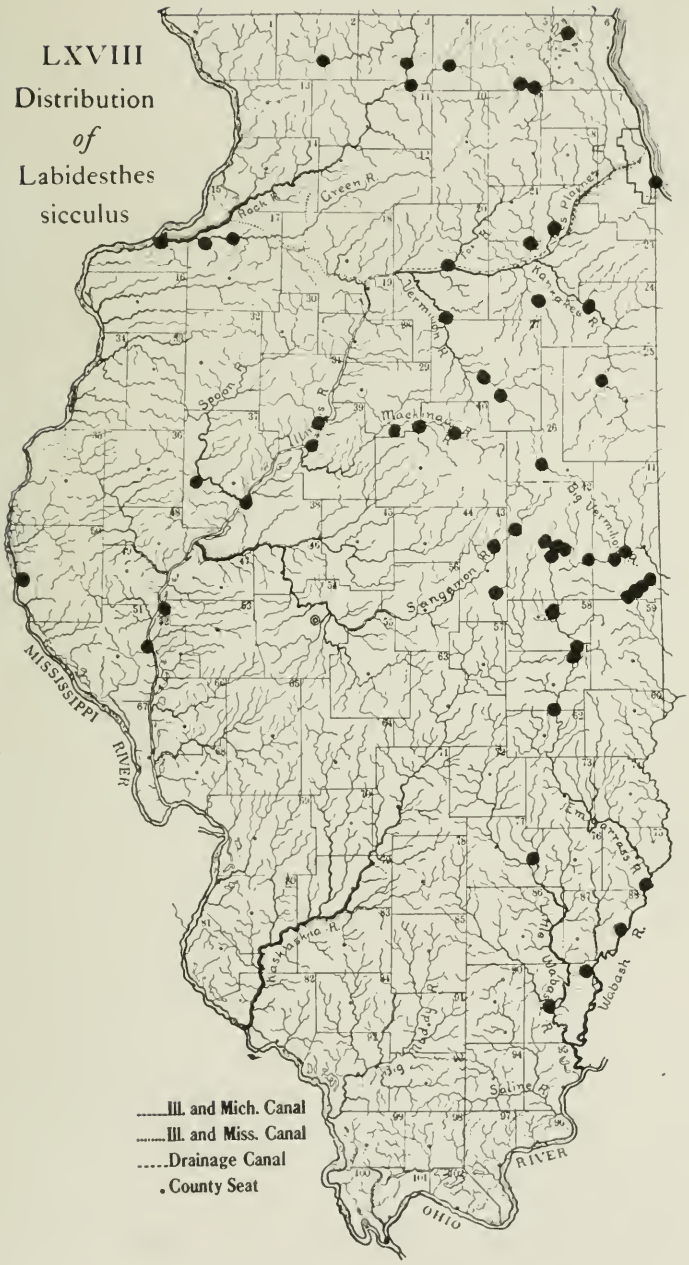



LXV
Distribution
of
Fundulus
notatus
Rock R.
Green R.
Kankakee R.
Illinois R.
Mackinaw R.
Sangamon R.
Vermilion R.
Embarras R.
Little Wabash R.
Wabash R.
MISSISSIPPI RIVER
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

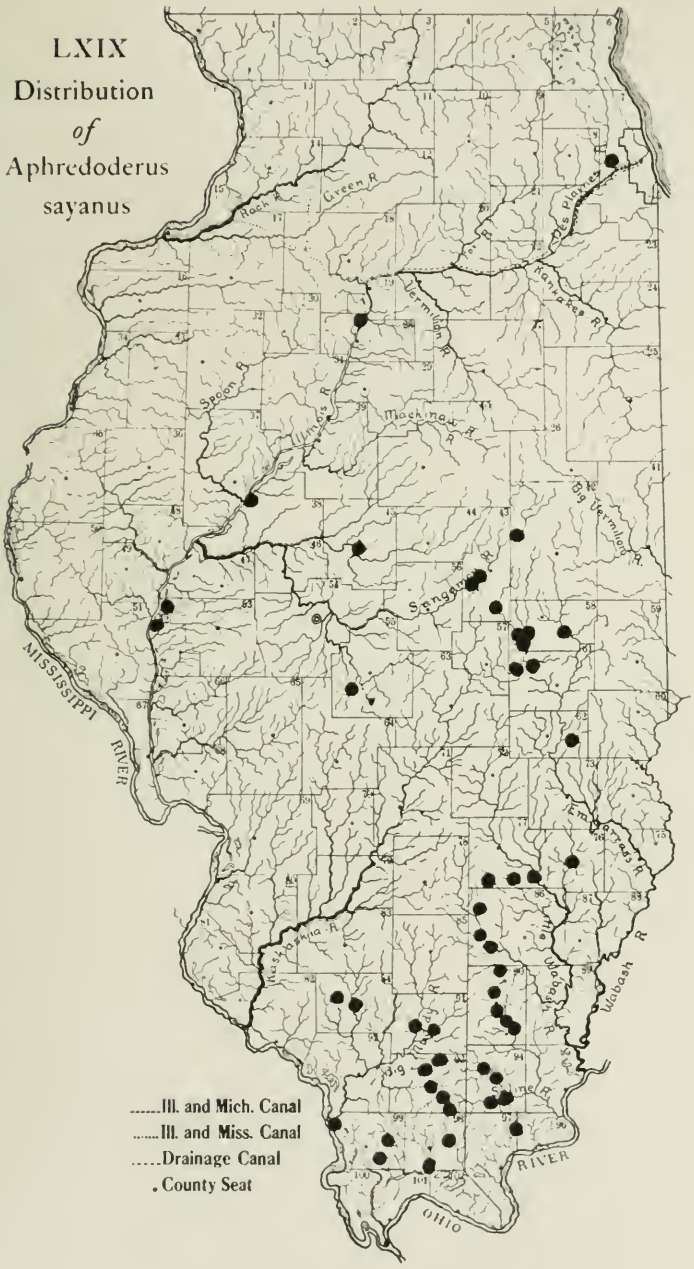
LXVI
Distribution
of
Gambusia
affinis
Rock R.
Green R.
Des Plaines R.
Fox R.
Kankakee R.
Vermilion R.
Illinois R.
Spoon R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Little Wabash R.
Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

LXVII
Distribution
of
Percopsis
guttatus
Rock R
Green R
Kankakee R
Vermilion R
Illinois R
Mackinaw R
Spoon R
Big Vermilion R
Sangamon R
MISSISSIPPI RIVER
Embarras R
Little Wabash R
Wabash R
Big Muddy R
Saline R
OHIO RIVER
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

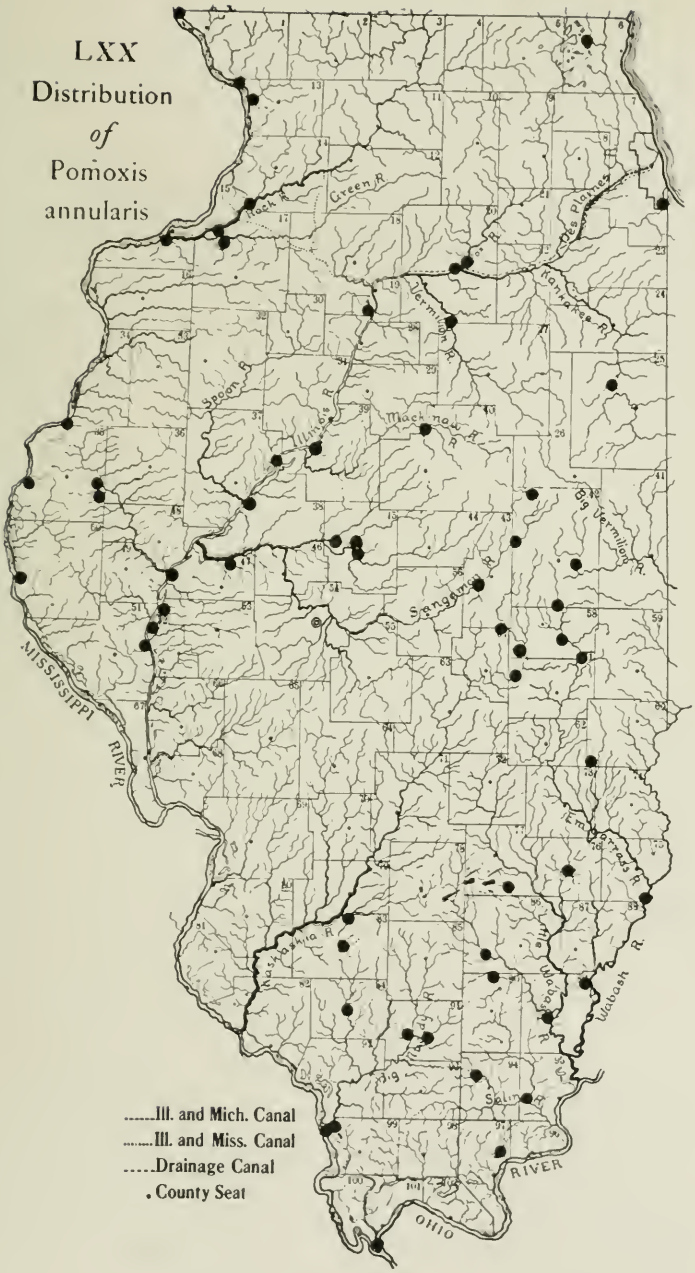
LXVIII
Distribution
of
Labidesthes
sicculus



LXIX
Distribution
of
Aphredoderus
sayanus



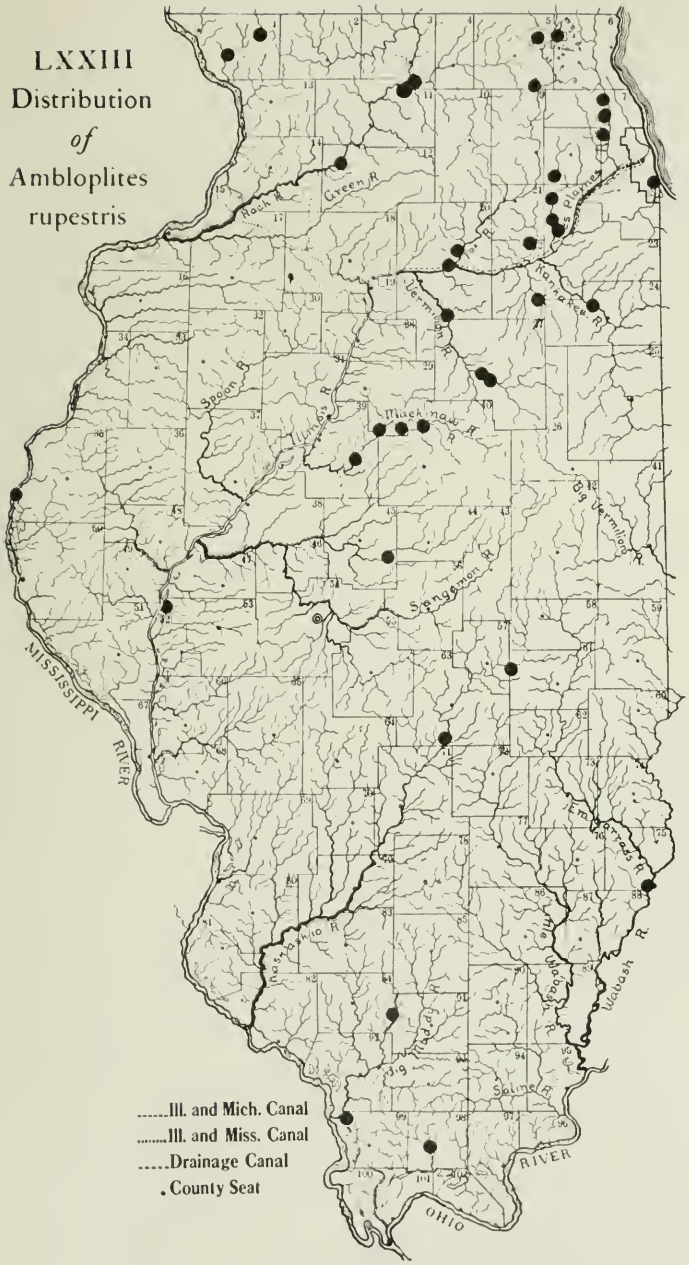
LXX
Distribution
of
Pomoxis
annularis



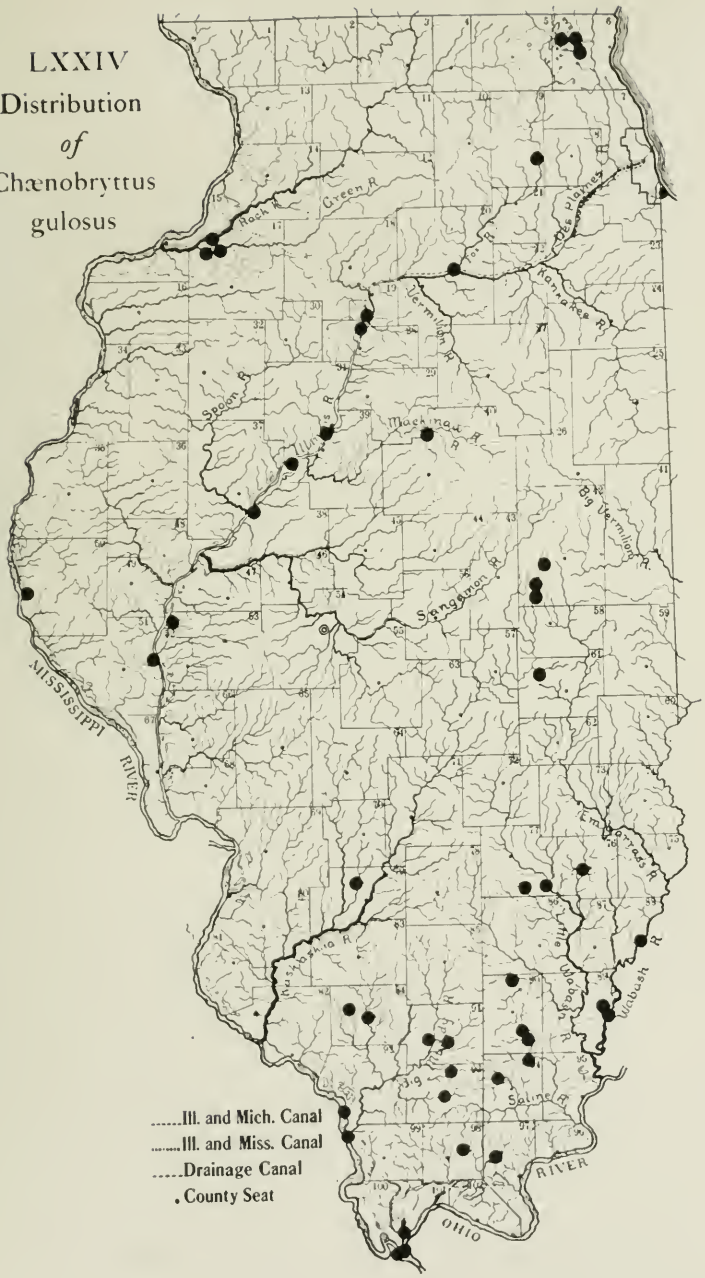
LXXI
Distribution
of
Pomoxis
sparoides

LXXII
Distribution
of
Centrarchus
macropterus

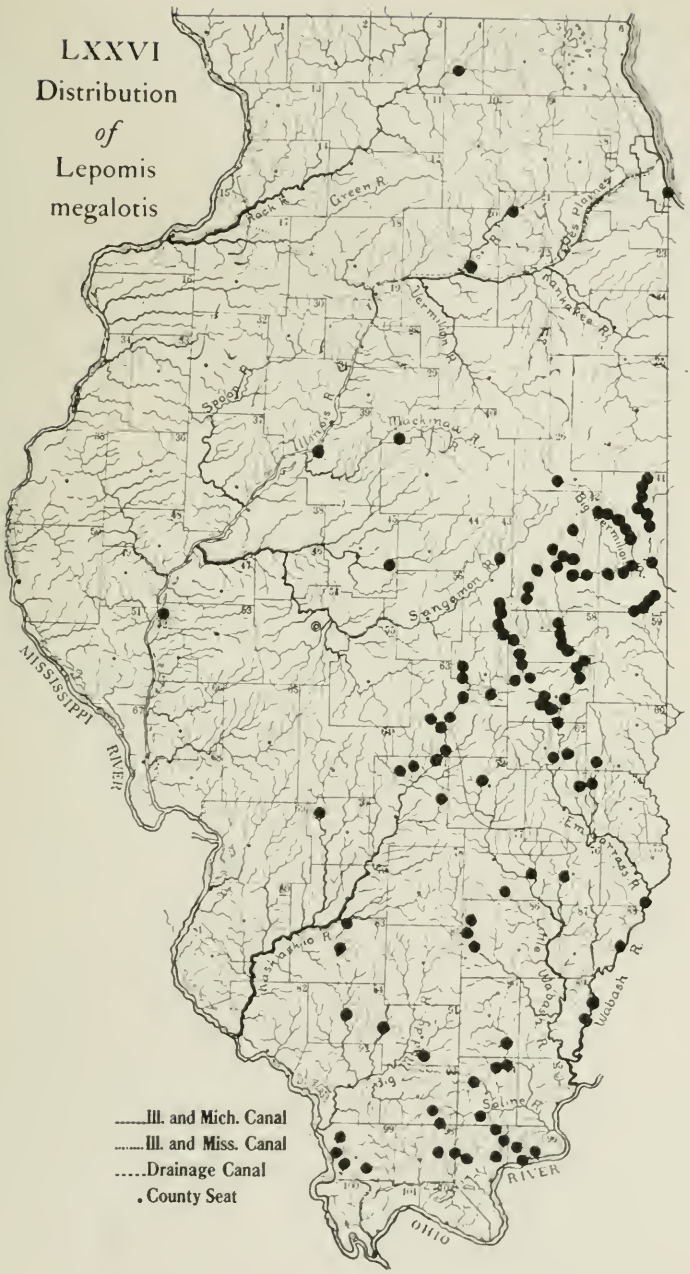
LXXIII
Distribution
of
Ambloplites
rupestris



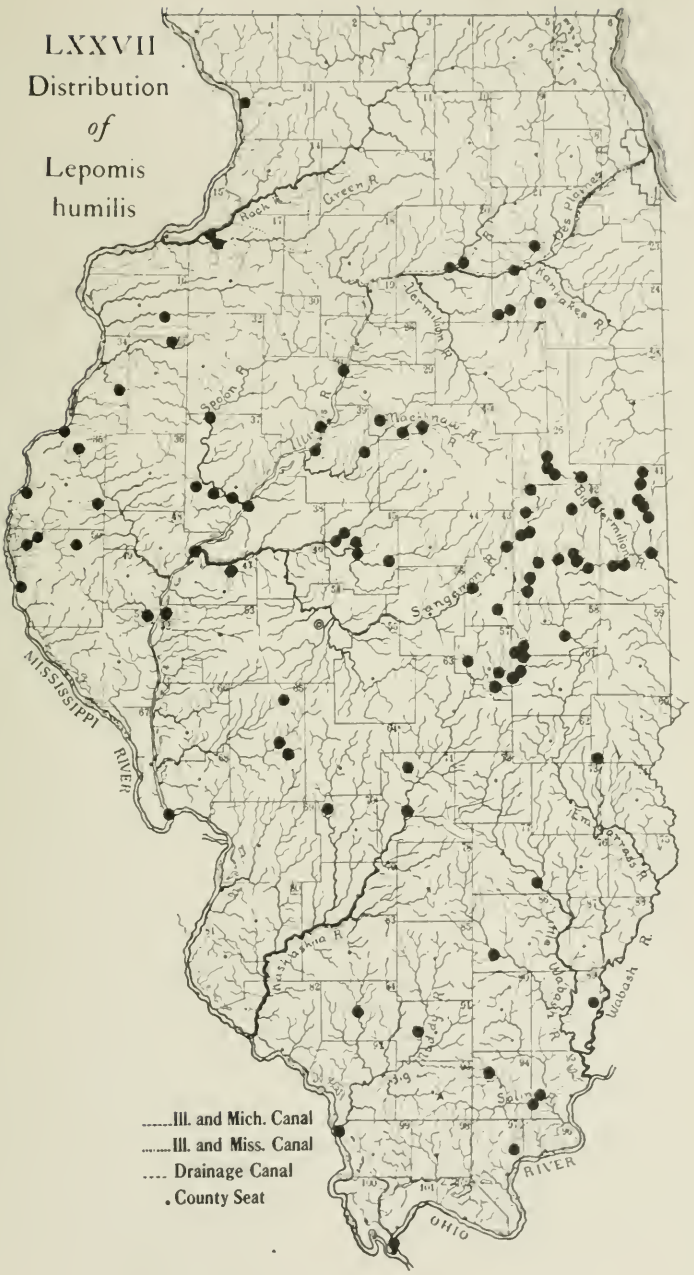
LXXIV
Distribution
of
Chænobryttus
gulosus

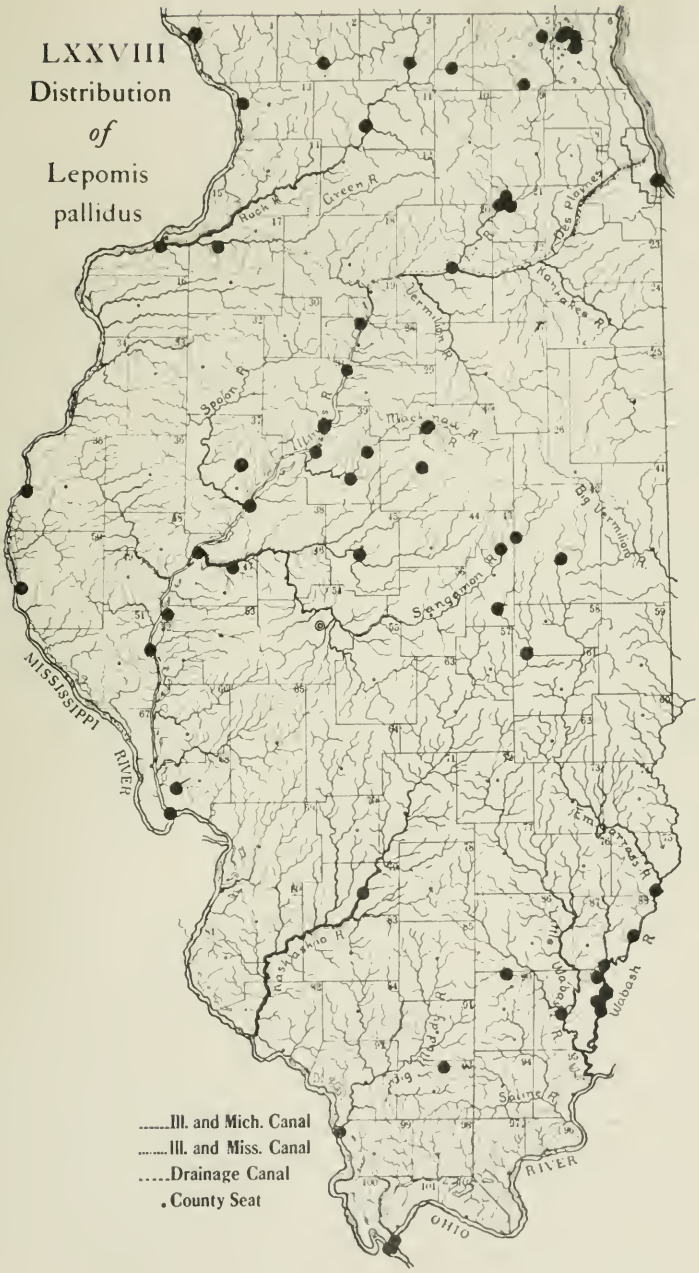


LXXV
Distribution
of
Lepomis
miniatus


LXXVI
Distribution
of
Lepomis
megalotis
Rock R.
Green R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Saline R.
Ohio R.
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

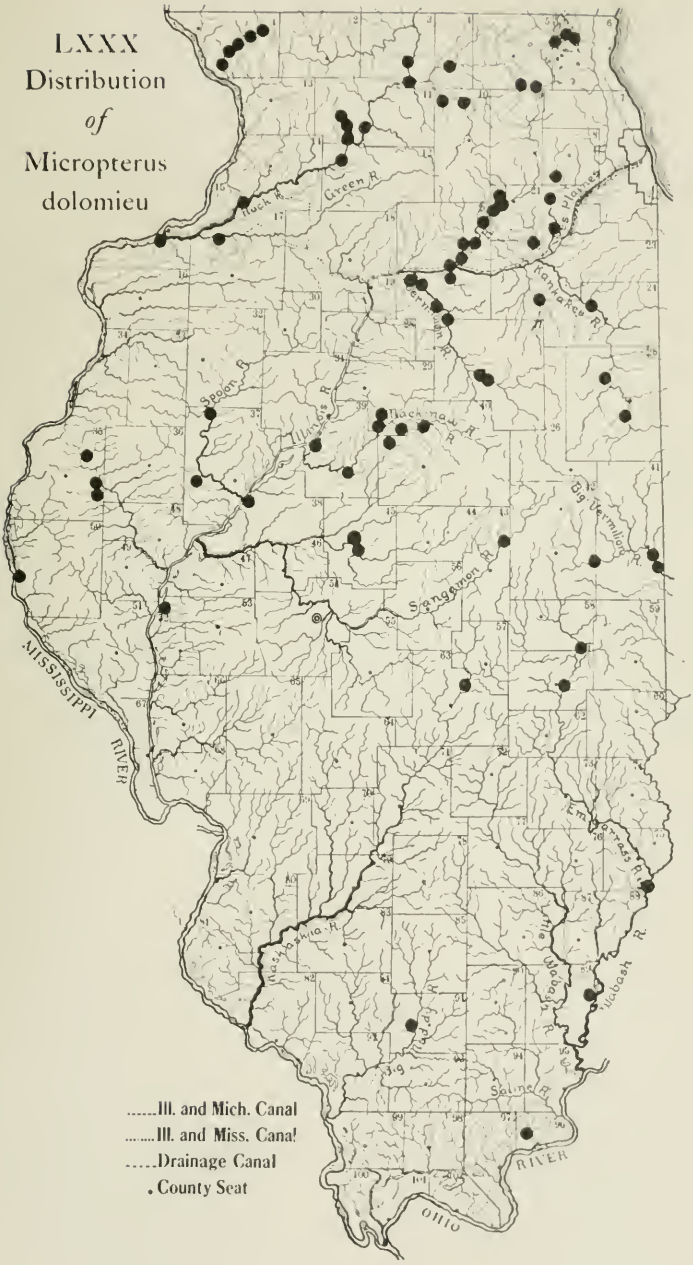
LXXVII
Distribution
of
Lepomis
humilis



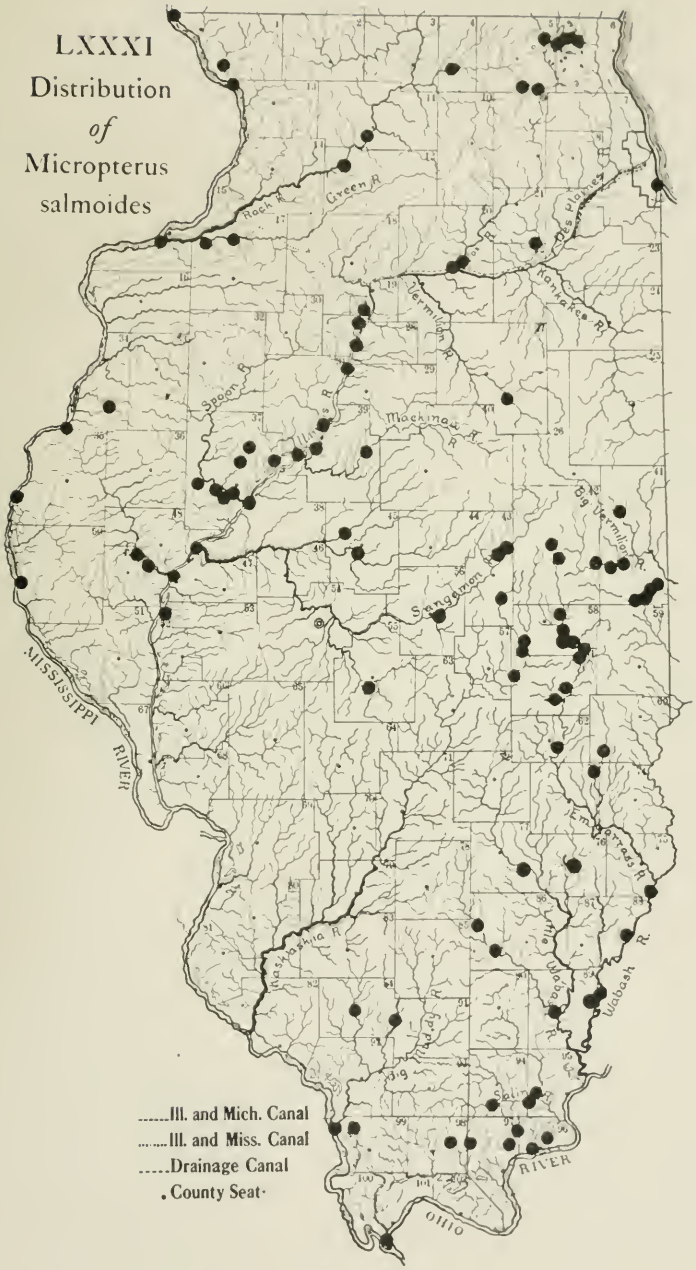

LXXVIII
Distribution
of
Lepomis
pallidus
Rock
Green R
Kankakee R
Vermilion R
Spoon R
Illinois R
Mackinaw R
Sangamon R
Big Vermilion R
MISSISSIPPI
RIVER
Embarras R
Wabash R
Kaskaskia R
Little Wabash R
Saline R
OHIO
RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

LXXIX.
Distribution
of
Eupomotis
gibbosus

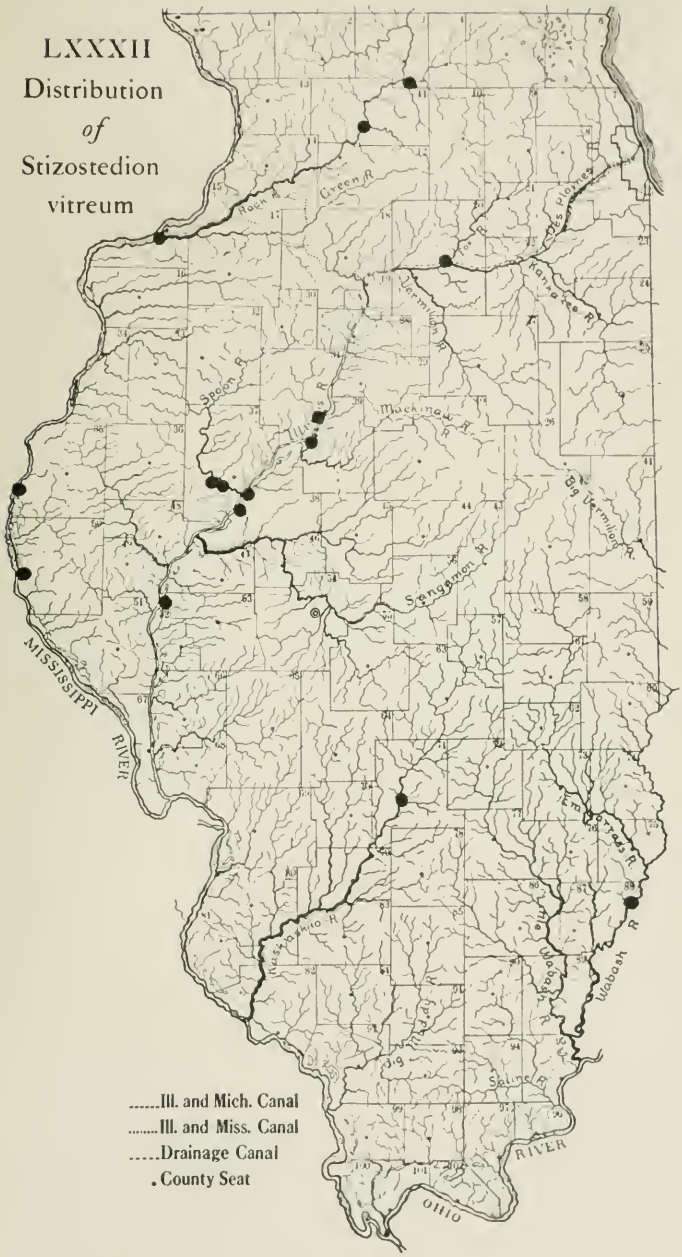
LXXX
Distribution
of
Micropterus
dolomieu



LXXXI
Distribution
of
Micropterus
salmoides



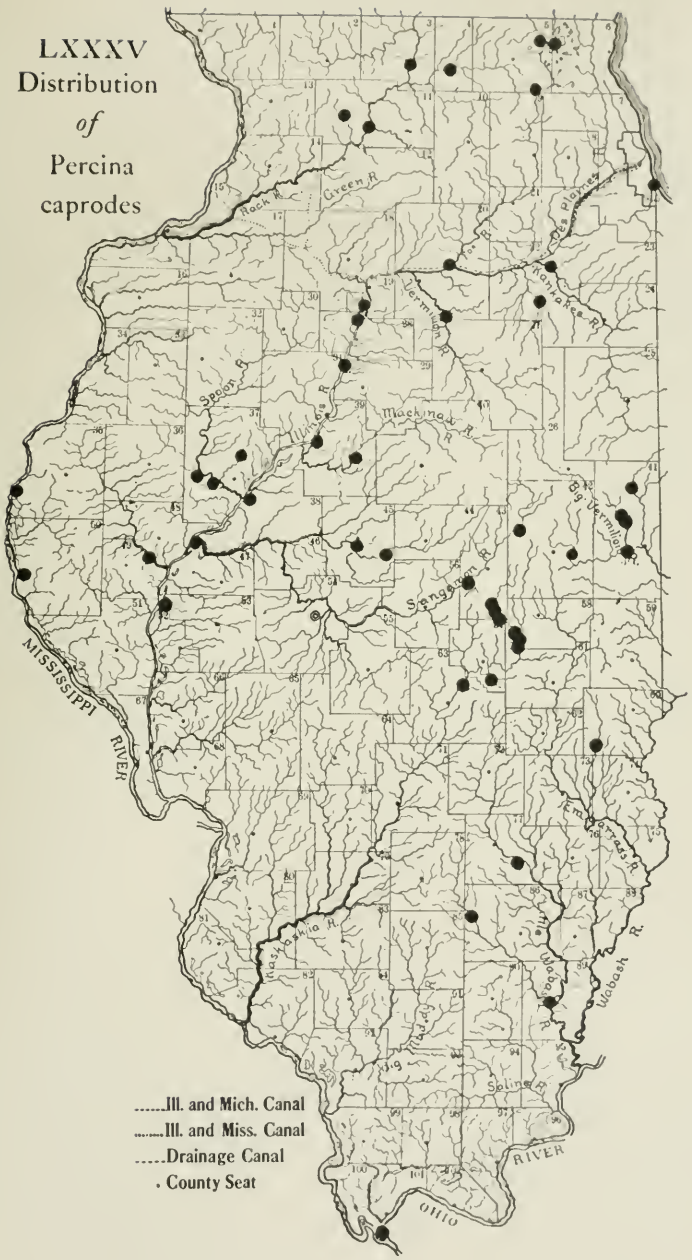
LXXXII
Distribution
of
Stizostedion
vitreum

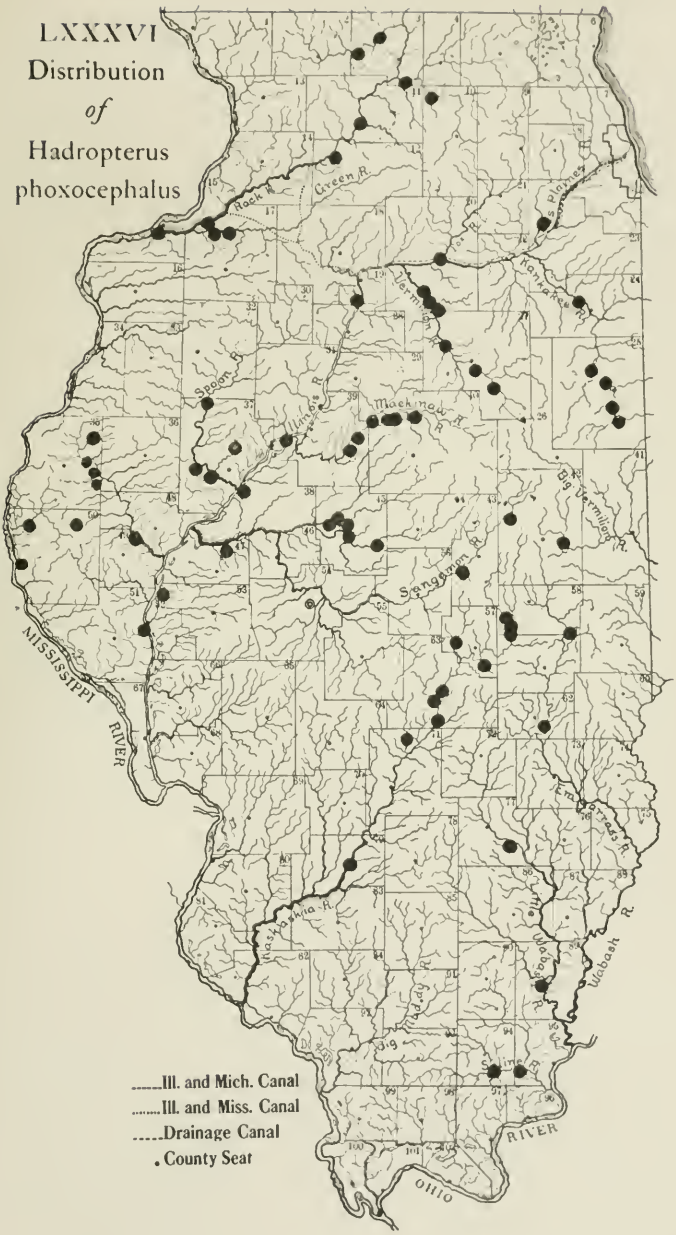


LXXXIII
Distribution
of
Stizostedion
canadense
griseum

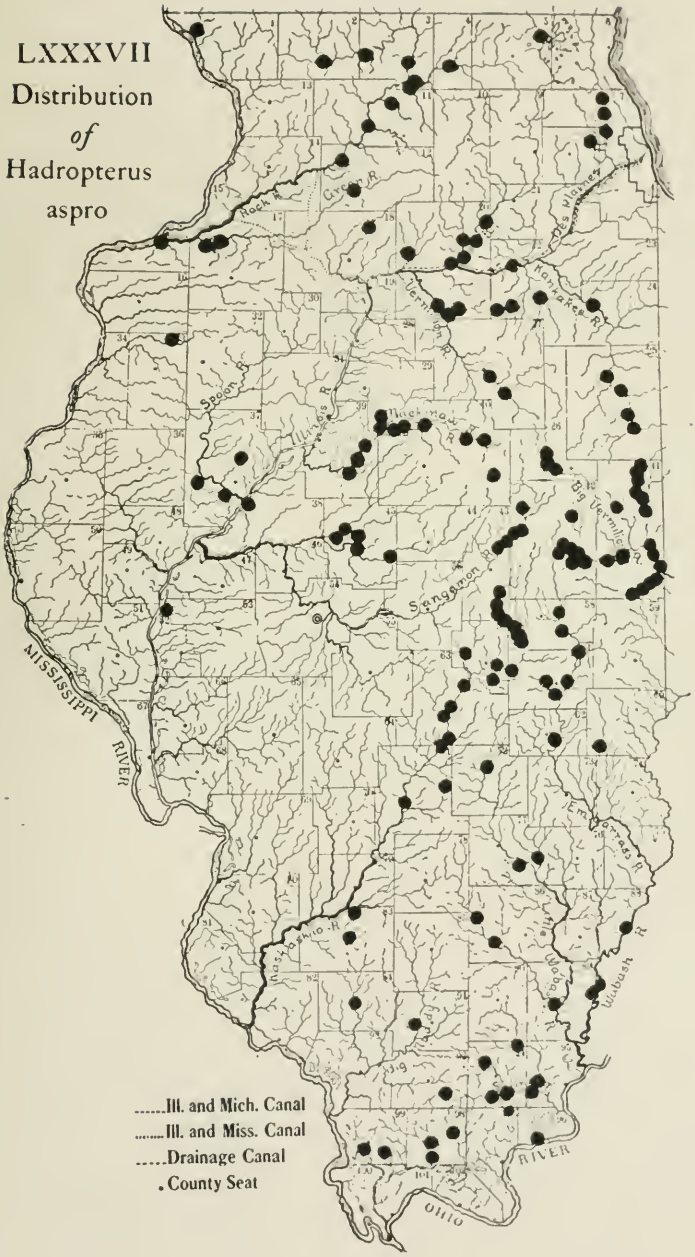
LXXXIV
Distribution
of
Perca
flavescens
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Black Hawk R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Kaskaskia R.
Big Muddy R.
Embarras R.
Wabash R.
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

LXXXV
Distribution
of
Percina
caprodes



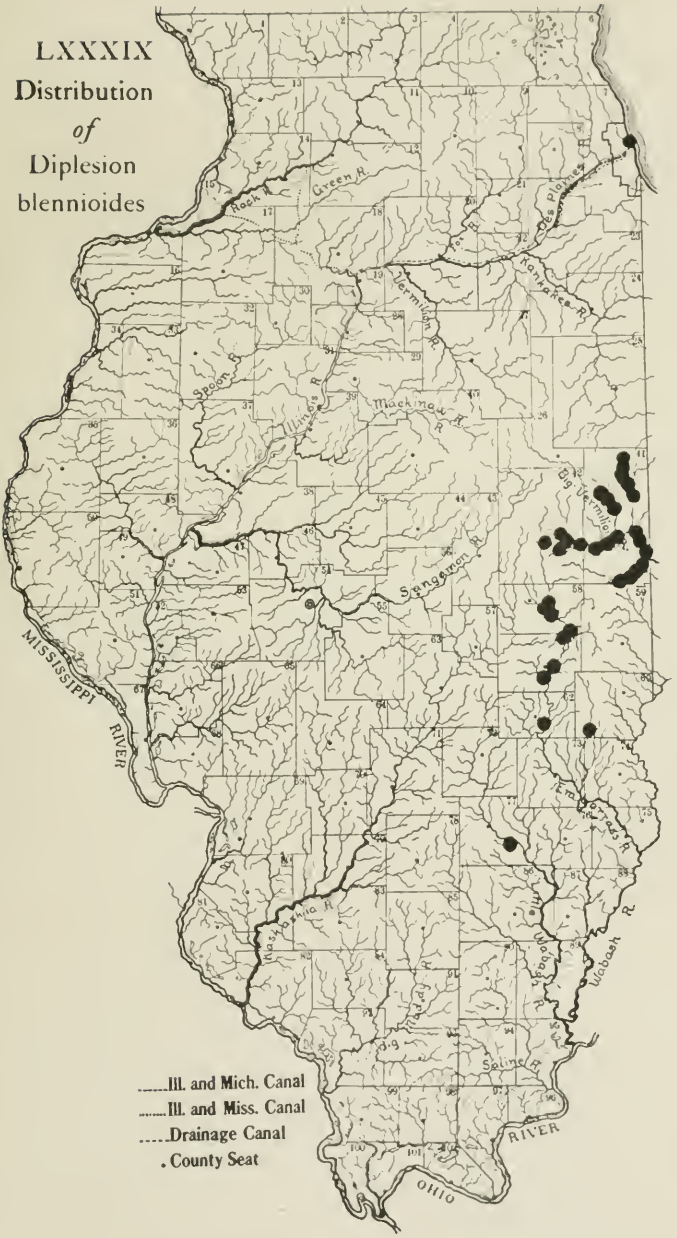

LXXXVI
Distribution
of
Hadropterus
phoxocephalus
Rock R.
Green R.
Spoon
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI
RIVER
Kaskaskia R.
Wabash R.
Embarras R.
Little Wabash R.
Saline R.
OHIO
RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
-----Drainage Canal
. County Seat

LXXXVII
Distribution
of
Hadropterus
aspro

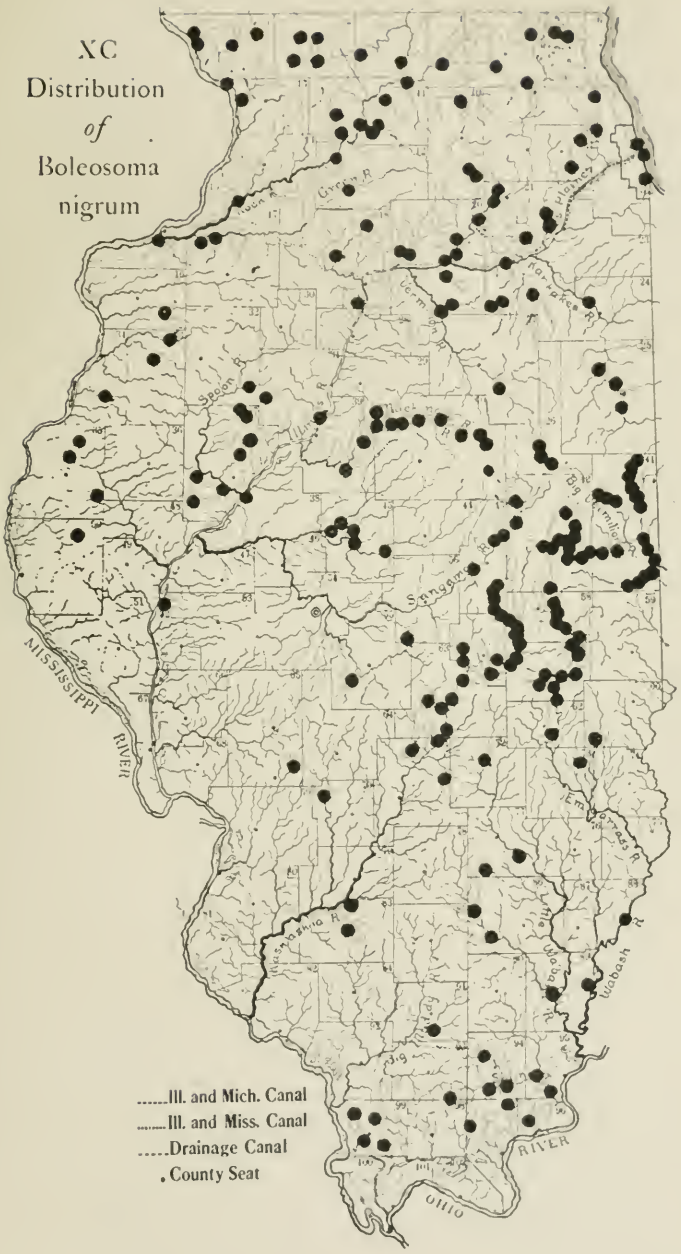


LXXXVIII
Distribution
of
Cottogaster
shumardi
Rock R.
Green R.
Spoon R.
Illinois R.
Mackinaw R.
Vermilion R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI
RIVER
Kaskaskia R.
Big Muddy R.
Saline R.
Wabash R.
OHIO
RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

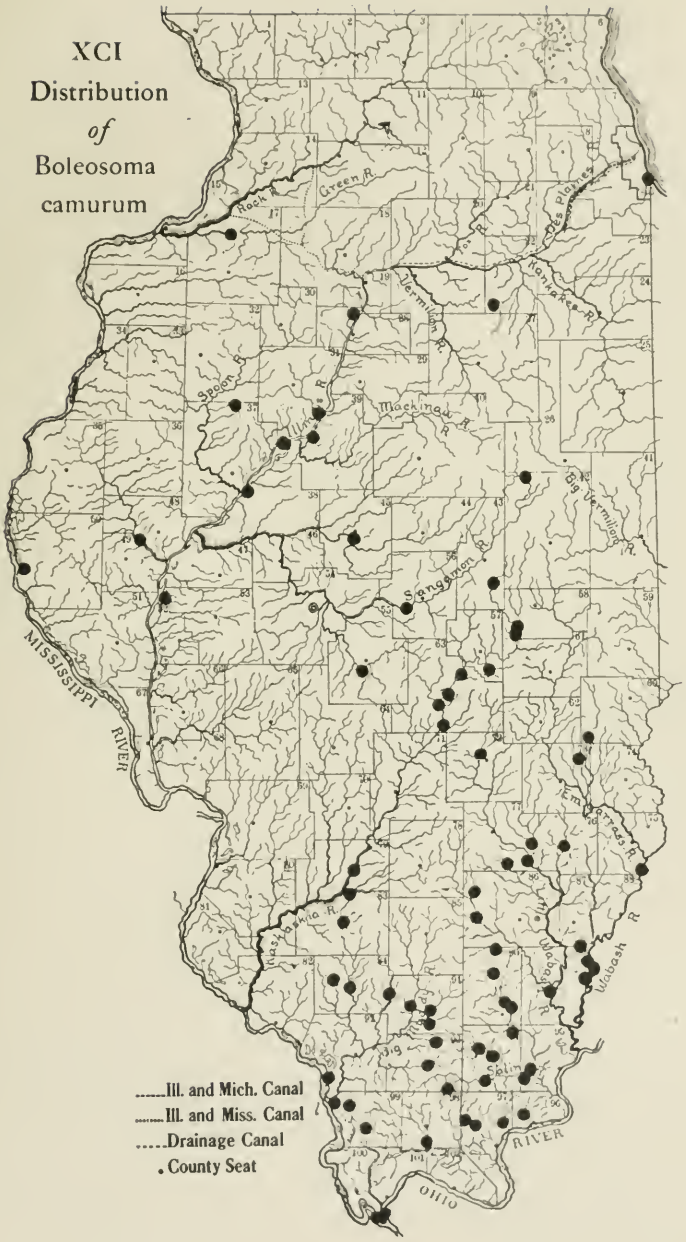
LXXXIX
Distribution
of
Diplesion
blennioides



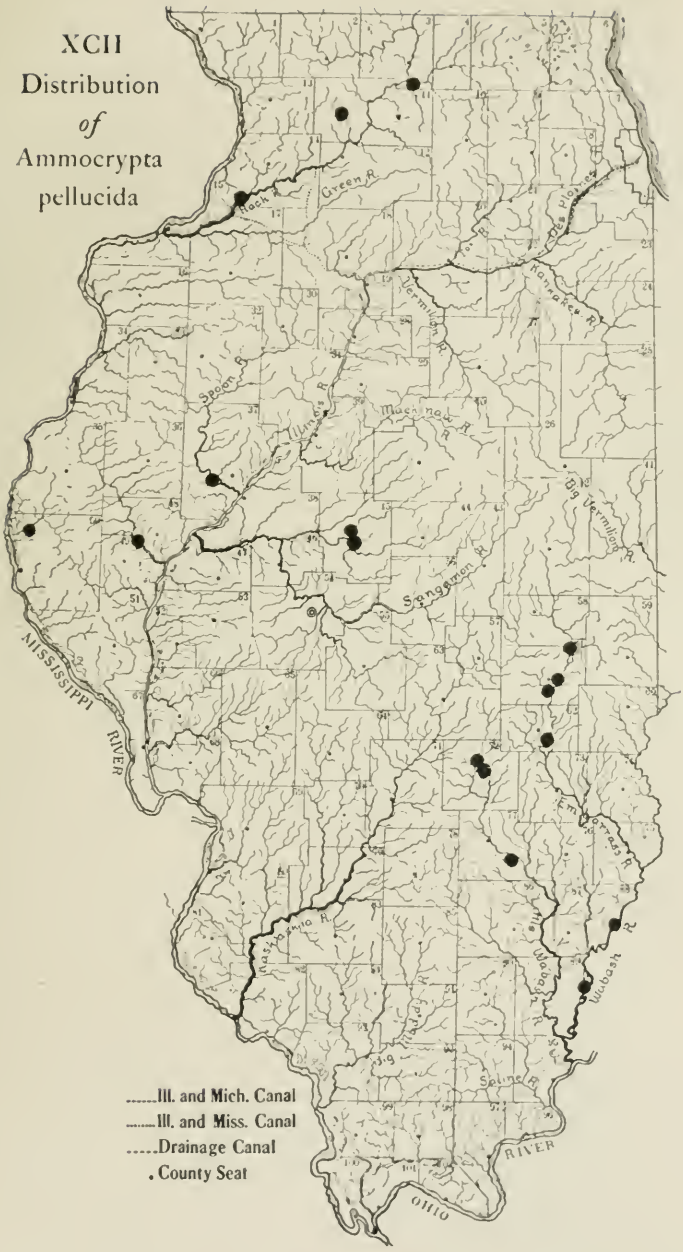
XC
Distribution
of
Boleosoma
nigrum



XCI
Distribution
of
Boleosoma
camurum

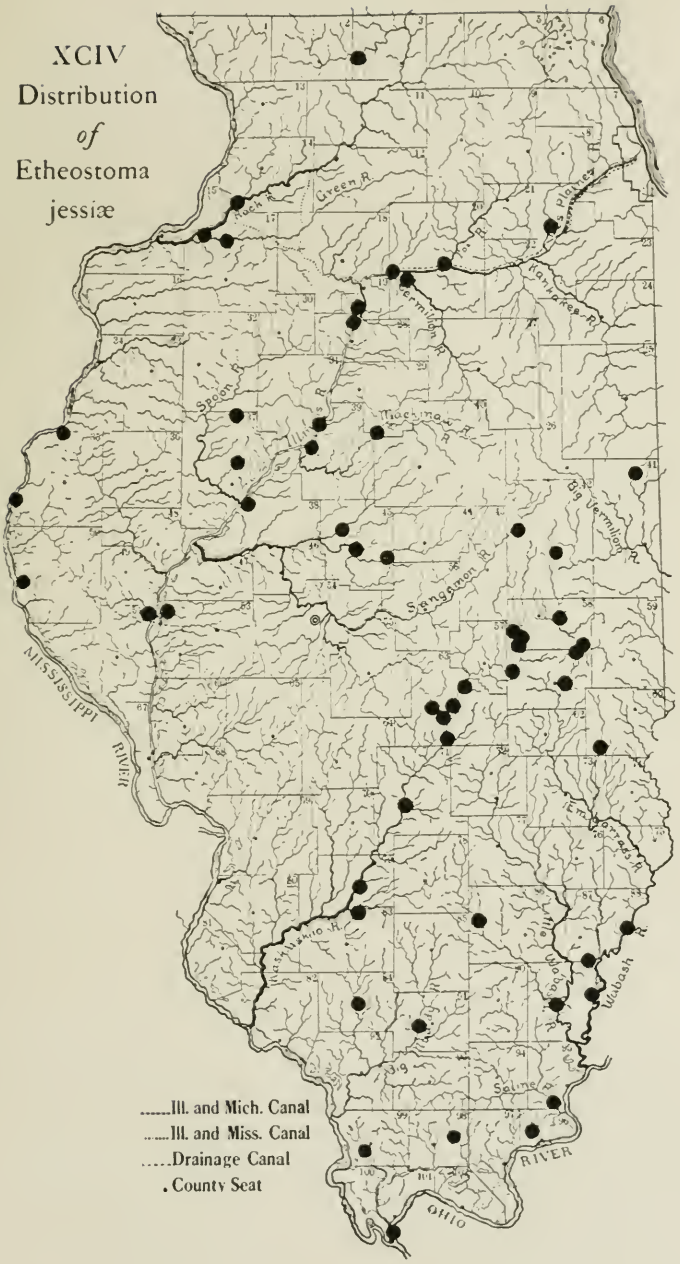


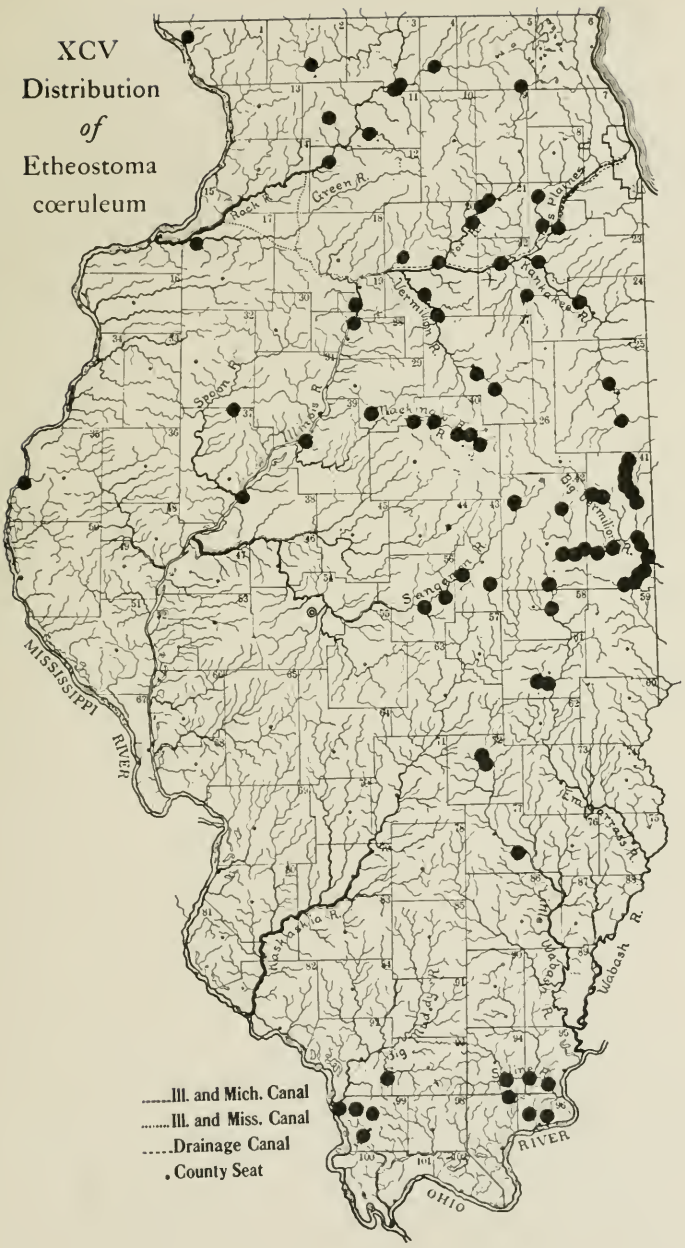
XCII
Distribution
of
Ammocrypta
pellucida



XCIII
Distribution
of
Etheostoma
zonale

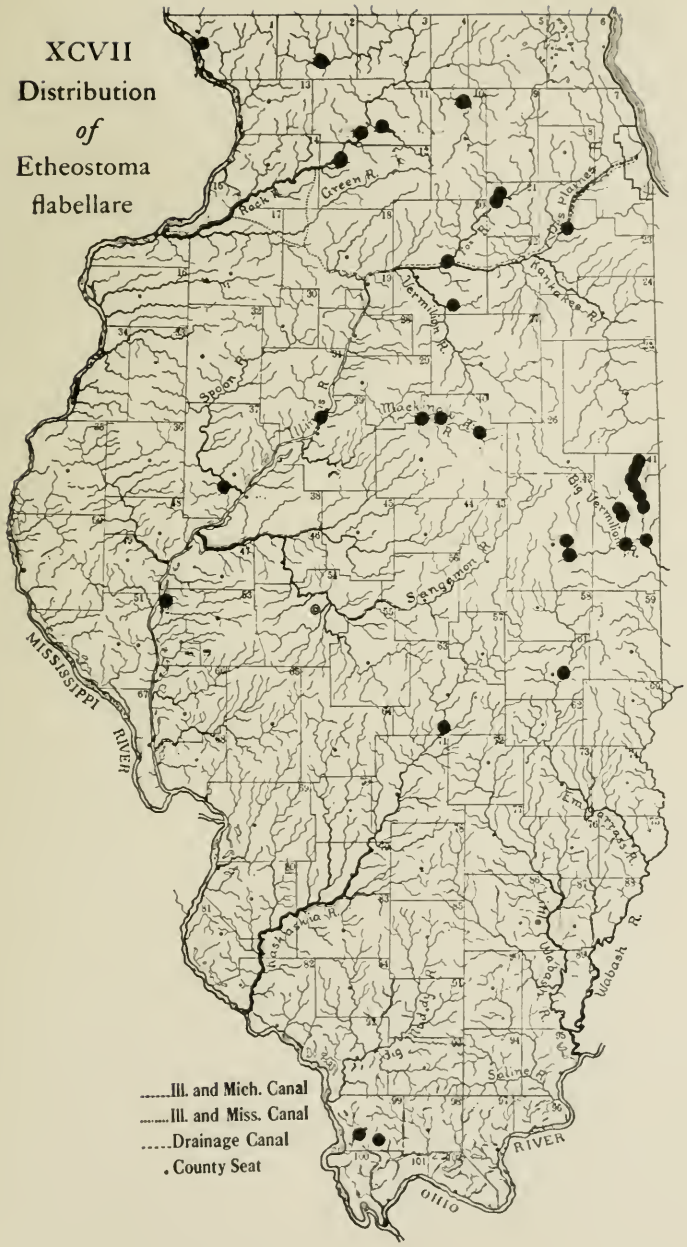
XCIV
Distribution
of
Etheostoma
jessiæ

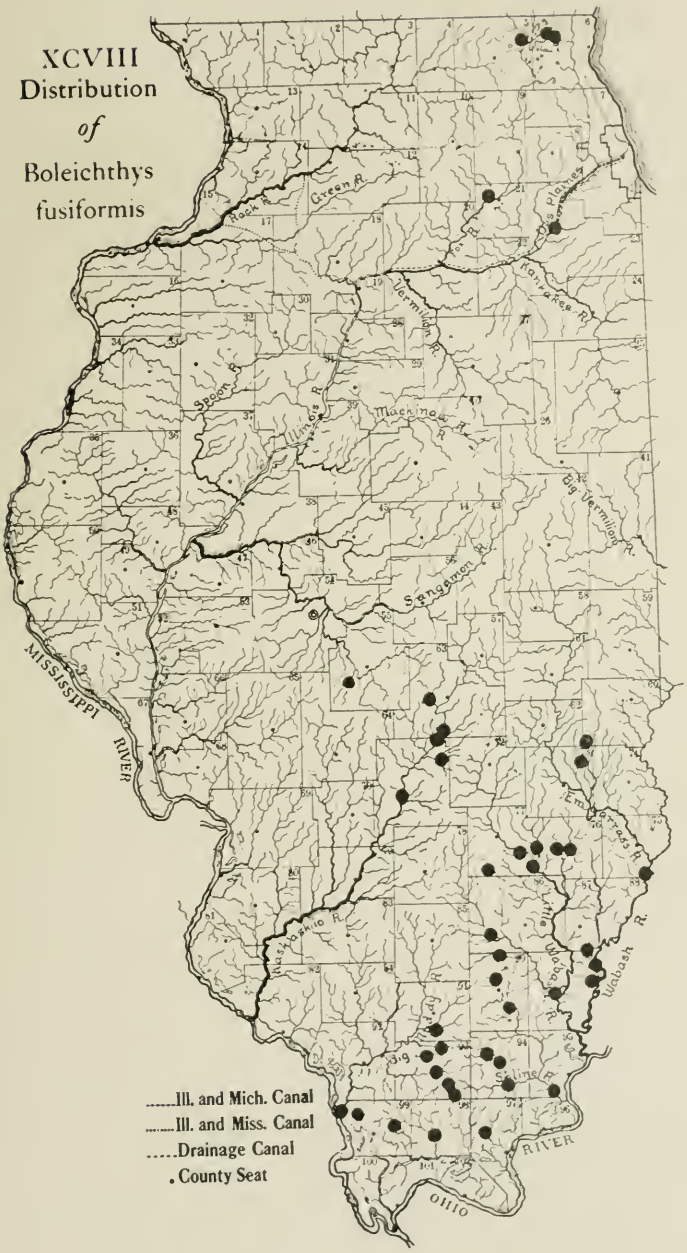



XCV
Distribution
of
Etheostoma
cœruleum
Rock R.
Green R.
Spoon R.
Illinois R.
Vermilion R.
Kankakee R.
Sangamon R.
Embarras R.
Wabash R.
MISSISSIPPI RIVER
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

XCVI
Distribution
of
Etheostoma
squamiceps
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Illinois R.
Mackinaw R.
Spoon R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI
RIVER
Embarras R.
Wabash R.
Little Wabash R.
Big Muddy R.
Saline R.
OHIO
RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

XCVII
Distribution
of
Etheostoma
flabellare




XCVIII
Distribution
of
Boleichthys
fusiformis
Rock R.
Green R.
Vermilion R.
Iroquois R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Little Wabash R.
Wabash R.
Big Muddy R.
Saline R.
RIVER
Ohio
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

XCIX
Distribution
of
Microperca
punctulata

C
Distribution
of
Roccus
chrysops
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Embarras R.
Wabash R.
Little Wabash R.
Big Muddy R.
Saline R.
OHIO RIVER
Ill. and Mich. Canal
Ill. and Miss. Canal
Drainage Canal
County Seat

Cl
Distribution
of
Morone
interrupta
Rock R.
Green R.
Kankakee R.
Iroquois R.
Vermilion R.
Spoon R.
Illinois R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI
RIVER
Kaskaskia R.
Little Wabash R.
Wabash R.
Embarras R.
Little Wabash R.
Saline R.
RIVER
OHIO
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
. County Seat

CII

Distribution

of

Aplodinotus

grunniens

CIII
Northern species (●)
and
Southern species (▲)
in Illinois
Rock R.
Green R.
Des Plaines R.
Kankakee R.
Vermilion R.
Illinois R.
Spoon R.
Mackinaw R.
Big Vermilion R.
Sangamon R.
MISSISSIPPI RIVER
Little Wabash R.
Wabash
Saline R.
OHIO RIVER
.....Ill. and Mich. Canal
.....Ill. and Miss. Canal
.....Drainage Canal
• County Seat

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